SLT-A33/A33L/A33Y/A55/A55V/A55L/A55VL/A55VY

SERVICE MANUAL

LEVEL 2

Ver. 1.0 2010.08

US Model
Canadian Model
AEP Model
UK Model
E Model
Australian Model
Chinese Model
Korea Model
Japanese Model
Tourist Model

Photo: SLT-A55V

SERVICE NOTE (Check the following note before the service.)

– ENGLISH –

1-1. METHOD FOR REPLACING THE P.O.I.
1-2. PRECAUTION ON REPLACING THE AM-022 BOARD
1-3. METHOD FOR CHECKING THE AS SLIDER UNIT (863)
1-4. METHOD FOR ADJUSTING THE TEBURE REVISE
1-5. METHOD FOR REPLACING THE AS SLIDER B ASSY
1-6. METHOD FOR REPLACING THE AS HOLDER ACTUATOR ASSY
1-7. GPS RECEIVING CHECK (SLT-A55V/A55VL/A55VY)

– JAPANESE –

1-1. P.O.I.の交換方法
1-2. AM-022基板交換時の注意
1-3. ASスライダーユニット(863)チェック方法
1-4. 手ぶれリバイス調整方法
1-5. ASスライダーB ASSYの交換方法
1-6. ASアクチュエータホルダASSYの交換方法
1-7. GPS 受信確認(SLT-A55V/A55VL/A55VY)

[About the service of this model]

SLT-A33L/A55L/A55VL is a commodity that packed the Interchangeable Lens Digital Camera (SLT-A33/A55/A55V) and Zoom Lens Kit (DT 18-55mm F3.5-5.6 SAM).
SLT-A33Y/A55VY is a commodity that packed the Interchangeable Lens Digital Camera (SLT-A33/A55V) and W Zoom Lens Kit (DT 18-55mm F3.5-5.6 SAM/DT 55-200mm F4-5.6 SAM).
Refer to each following service manual of the Zoom lens kit, when you repair.

- Zoom Lens Kit
  SAL1855 (DT 3.5-5.6/18-55 SAM) (DT 18-55mm F3.5-5.6 SAM) Service Manual (9-852-691-1□)
  SAL55200-2 (DT 4-5.6/55-200 SAM) (DT 55-200mm F4-5.6 SAM) Service Manual (9-852-692-1□)

INTERCHANGEABLE LENS DIGITAL CAMERA/ZOOM LENS KIT

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SONY®

SLT-A33/A33L/A33Y/A55/A55V/A55L/A55VL/A55VY_L2
9-834-515-31

Sony Corporation

2010H29-1

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Revision History

Ver.	Date	History	Contents	S.M. Rev. issued
1.0	2010.08	Official Release	—	—

– ENGLISH –

SPECIFICATIONS

[System]

Camera Type
Interchangeable Lens Digital Camera

Lens A-mount lens

[Image sensor]

Image format
SLT-A55/A55V
23.5 × 15.6 mm (APS-C format) CMOS image sensor
SLT-A33
23.4 × 15.6 mm (APS-C format) CMOS image sensor

Total pixel number of image sensor
SLT-A55/A55V
Approx. 16 700 000 pixels
SLT-A33
Approx. 14 600 000 pixels

Effective pixel number of camera
SLT-A55/A55V
Approx. 16 200 000 pixels
SLT-A33
Approx. 14 200 000 pixels

[SteadyShot]

System Image sensor-shift mechanism

Effect Approx. 2.5 to 4 EV in shutter speed (depending on shooting conditions and the attached lens)

[Anti-Dust]

System Charge protection coating on Low-Pass Filter and image sensor-shift mechanism

[Auto focus system]

System TTL phase-detection system, 15 points (3 points cross type)

Sensitivity Range
–1 to 18 EV (at ISO 100 equivalent)

AF illuminator
Approx. 1 to 5 m (3.3 to 16.4feet)

[Live View]

Type Main sensor Live View (Translucent mirror mechanism)

Image format
"Exmor" CMOS sensor

Frame coverage
100%

[Electronic viewfinder]

Type Electronic viewfinder (color)

Screen size 1.2 cm (0.46 type)

Total number of dots
1 440 000 dots conversion

Available screen size displayed
1.1 cm (0.43 type)

Available number of dots displayed
1 152 000 dots conversion

Frame coverage
100%

Magnification
1.10 × with 50 mm lens at infinity, –1 m^{-1}(diopter)

Eye Point Approximately 19 mm from the eyepiece, 18 mm from the eyepiece frame at –1 m^{-1}

Dioptor Adjustment
–4.0 to + 4.0 m^{-1}(diopter)

[LCD monitor]

LCD panel 7.5 cm (3.0 type) TFT drive

Total number of dots
921 600 (640 × 3 (RGB) × 480) dots

[Exposure control]

Metering Cell
"Exmor" CMOS sensor

Metering method
1200-zone evaluative metering

Metering Range
–2 to + 17 EV on Multi segment, Center weighted, Spot modes (at ISO 100 equivalent with F1.4 lens)

ISO sensitivity (Recommended exposure index)
AUTO, ISO 100 to 12800

Exposure compensation
±2.0 EV (1/3 EV step)

[Shutter]

Type Electronically-controlled, vertical-traverse, focal-plane type

Speed range 1/4000 second to 30 seconds, bulb, (1/3 EV step)

Flash sync speed
1/160 second

[Built-In-Flash]

Flash G.No.
GN 10 (in meters at ISO 100)

Recycling time
Approx. 4 seconds

Flash coverage
Covering 18mm lens (focal length that the lens indicates)

Flash compensation
±2.0 EV (1/3 EV step)

[Recording format]

File format JPEG (DCF Ver. 2.0, Exif Ver. 2.3, MPF Baseline) compliant, DPOF compatible

Movie (AVCHD format)
AVCHD Ver. 1.0 compliant
Video: MPEG-4 AVC/H.264
Audio: Dolby Digital 2ch, equipped with Dolby Digital Stereo Creator

- Manufactured under license from Dolby Laboratories.

Movie (MP4 format)
Video: MPEG-4 AVC/H.264
Audio: MPEG-4 AAC-LC 2ch

[Recording media]

"Memory Stick PRO Duo" media, SD card

[Input/output terminals]

USB miniB

HDMI HDMI type C minijack

Mic Terminal
∅ 3.5mm Stereo minijack

REMOTE Terminal

[Power, general]

Used battery pack
Rechargeable battery pack NP-FW50

[Others]

Exif Print Compatible

PRINT Image Matching III
Compatible

Dimensions Approx. 124.4 × 92 × 84.7 mm (4 7/8 × 3 5/8 × 3 1/3 inches) (W/H/D, excluding protrusions)

Mass
SLT-A55V
Approx. 500 g (1 lb 1.6 oz) (with battery and "Memory Stick PRO Duo" media)
Approx. 441 g (15.6 oz) (body only)
SLT-A55/A33
Approx. 492 g (1 lb 1.3 oz) (with battery and "Memory Stick PRO Duo" media)
Approx. 433 g (15.3 oz) (body only)

Operating temperature
0 to 40°C (32 to 104°F)

USB communication
Hi-Speed USB (USB 2.0 compliant)

BC-VW1 Battery charger

Input rating 100 V - 240 V AC, 50 Hz/60 Hz, 4.2W

Output rating
8.4 V DC, 0.28 A

Operating temperature range
0 to 40°C (32 to 104°F)

Storage temperature range
–20 to +60°C (–4 to +140°F)

Maximum dimensions
Approx. 63 × 95 × 32 mm (2 1/2 × 3 3/4 × 1 5/16 inches) (W/H/D)

Mass Approx. 85 g (3 oz)

Rechargeable battery pack NP-FW50

Used battery
Lithium-ion battery

Maximum voltage
DC 8.4 V

Nominal voltage
DC 7.2 V

Maximum charge voltage
DC 8.4 V

Maximum charge current
1.02 A

Capacity
Typical 7.7 Wh (1080 mAh)
Minimum 7.3 Wh (1020 mAh)

Maximum dimensions
Approx. 31.8 × 18.5 × 45 mm (1 5/16 × 3/4 × 1 13/16 inches) (W/H/D)

Mass Approx. 57 g (2.1 oz)

Design and specifications are subject to change without notice.

– JAPANESE –

概略仕様

[形式]

カメラタイプ
レンズ交換式デジタルカメラ

使用レンズ Aマウントレンズ

[撮像部]

撮像素子 **SLT-A55V**
23.5×15.6mm（APS-Cサイズ）、CMOSイメージセンサー
SLT-A33
23.4×15.6mm（APS-Cサイズ）、CMOSイメージセンサー

総画素数 **SLT-A55V**
約16 700 000画素
SLT-A33
約14 600 000画素

カメラ有効画素数
SLT-A55V
約16 200 000画素
SLT-A33
約14 200 000画素

[手ブレ補正]

形式 イメージセンサーシフト方式

効果 シャッタースピード約2.5段 ～ 4段（撮影条件・レンズにより異なる）

[アンチダスト]

システム 帯電防止コートとイメージセンサーシフト駆動の併用

[オートフォーカス]

形式 TTL位相差検出方式、15点（3点クロスタイプ）

検出輝度範囲
EV－1 ～ EV18（ISO 100相当）

AF補助光 約1m ～ 5m

[ライブビュー]

形式 メインイメージセンサー取込式（透過ミラー型）

撮像素子 "Exmor"CMOSセンサー

視野率 100%

[液晶ファインダー]

形式 電子式ビューファインダー（カラー）

画面サイズ 1.2cm(0.46型)

総ドット数 1 440 000ドット相当

有効表示画面サイズ
1.1cm(0.43型)

有効表示ドット数
1 152 000ドット相当

視野率 100%

倍率 1.10倍（50mmレンズ、無限遠、視度－1m^{-1}時）

アイポイント
最終光学面から約19mm、接眼枠から約18mm（視度－1m^{-1}時）

視度調整 －4.0 ～ +4.0m^{-1}（ディオプター）

[液晶モニター]

形式 7.5cm（3.0型）TFT駆動

ドット数 921 600（640×3（RGB）×480）ドット

[露出制御]

測光素子 "Exmor"CMOSセンサー

測光方式 1200分割ライブビュー分析測光

測光範囲 EV－2 ～ +17、分割、中央重点、スポット測光とも（ISO100相当、F1.4レンズ使用）

ISO感度（推奨露光指数）
オート、ISO100 ～ 12800

露出補正 ±2.0EV（1/3段ステップ）

[シャッター]

形式 電子制御式縦走りフォーカルプレーンシャッター

シャッタースピード範囲
1/4000 ～ 30秒、バルブ（1/3段ステップ）

フラッシュ同調速度
1/160秒

[内蔵フラッシュ]

ガイドナンバー
10（ISO100・m）

充電時間 約4秒

照射角 18mmレンズをカバー（レンズ表示の焦点距離）

調光補正 ±2.0EV（1/3段ステップ）

[記録方式]

静止画記録方式
JPEG（DCF Ver.2.0、Exif Ver.2.3、MPF Baseline）準拠、DPOF対応

動画記録方式（AVCHD方式）
AVCHD規格Ver1.0準拠
映像：MPEG-4 AVC/H.264
音声：Dolby Digital 2ch
ドルビーデジタルステレオクリエーター搭載

- ドルビーラボラトリーズからの実施権に基づき製造されています。

動画記録方式（MP4方式）
映像：MPEG-4 AVC/H.264
音声：MPEG-4 AAC-LC 2ch

[記録メディア]

"メモリースティックPROデュオ"、SDカード

[入出力端子]

USB端子 miniB

HDMI端子 HDMIタイプCミニ端子

マイク端子 ∅3.5mmステレオミニジャック

REMOTE端子

[電源]

バッテリー リチャージャブルバッテリーパックNP-FW50

[その他]

Exif Print 対応

PRINT Image Matching III
対応

外形寸法 約124.4×92×84.7mm（幅×高さ×奥行き、突起部を除く）

本体質量 **SLT-A55V**
約500g（バッテリー、"メモリースティックPROデュオ"を含む）
約441g（本体のみ）
SLT-A33
約492g（バッテリー、"メモリースティックPROデュオ"を含む）
約433g（本体のみ）

動作温度 0 ～ 40℃

USB通信 Hi-Speed USB（USB2.0準拠）

バッテリーチャージャー BC-VW1

定格入力 AC 100V–240V、50Hz/60Hz、4.2W

定格出力 DC 8.4V、0.28A

動作温度 0℃ ～ 40℃

保存温度 －20℃ ～ +60℃

最大外形寸法
約63×95×32mm（幅×高さ×奥行き）

本体質量 約85g

リチャージャブルバッテリーパックNP-FW50

使用電池 リチウムイオン蓄電池

最大電圧 DC 8.4V

公称電圧 DC 7.2V

容量
公称容量 7.7Wh（1 080mAh）
定格（最小）容量
7.3Wh（1 020mAh）

最大外形寸法
約31.8×18.5×45mm（幅×高さ×奥行き）

本体質量 約57g

本機や付属品の仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

Model information table

Model	SLT-A33	SLT-A33L	SLT-A33Y	SLT-A55
Destination	US, AEP, UK, E, AUS, KR, J	US, CND, AEP, UK, E, AUS, CH, KR, J, JE	CND, AEP, UK, E, AUS, CH, KR, J	CH
Imager sensor	14M	14M	14M	16M
GPS	×	×	×	×
Lens	×	DT 18-55mm F3.5-5.6 SAM	DT 18-55mm F3.5-5.6 SAM/ DT 55-200mm F4-5.6 SAM	×

Model	SLT-A55V	SLT-A55L	SLT-A55VL	SLT-A55VY
Destination	US, CND, AEP, E, AUS, KR, J	CH	US, CND, AEP, UK, E, AUS, KR, J	AEP, E, AUS, KR, J
Imager sensor	16M	16M	16M	16M
GPS	○	×	○	○
Lens	×	DT 18-55mm F3.5-5.6 SAM	DT 18-55mm F3.5-5.6 SAM	DT 18-55mm F3.5-5.6 SAM/ DT 55-200mm F4-5.6 SAM

- Abbreviation
  AUS : Australian model
  CH : Chinese model
  CND : Canadian model
  J : Japanese model
  JE : Tourist model
  KR : Korea model

– ENGLISH –

CHEMICALS

Some chemicals used for servicing are highly volatile.
Their evaporation caused by improper management affects your health and environment, and wastes resources.
Manage the chemicals carefully as follows.

- Store chemicals sealed in a specific place to prevent from exposure to high temperature or direct sunlight.
- Avoid dividing chemicals into excessive numbers of small containers to reduce natural evaporation.
- Keep containers sealed to avoid natural evaporation when chemicals are not in use.
- Avoid using chemicals as much as possible. When using chemicals, divide only required amount to a small plate from the container and use up it.

PLASTIC PARTS

Be careful to the following points for plastic parts used in this unit.

- Use a piece of cleaning paper or cleaning cloth for cleaning plastic parts. Avoid using chemicals.
  Even if you have to use chemicals to clean heavy dirt, don't use paint thinner, ketone, nor alcohol.
- Insert the specific screws vertically to the part when installing a plastic part.
  Be careful not to tighten screws too much.

Caution
Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.
Dispose of used batteries according to the instructions.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer.

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
4. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
5. Check the B+ voltage to see it is at the values specified.
6. Flexible Circuit Board Repairing
   - Keep the temperature of the soldering iron around 270 °C during repairing.
   - Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
   - Be careful not to apply force on the conductor when soldering or unsoldering.

UNLEADED SOLDER

This unit uses unleaded solder.
Boards requiring use of unleaded solder are printed with the lead free mark (LF) indicating the solder contains no lead.
(**Caution:** Some printed circuit boards may not come printed with the lead free mark due to their particular size.)

: LEAD FREE MARK

Be careful to the following points to solder or unsolder.

- Set the soldering iron tip temperature to 350 °C approximately.
  If cannot control temperature, solder/unsolder at high temperature for a short time.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
  Unleaded solder is more viscous (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Be sure to control soldering iron tips used for unleaded solder and those for leaded solder so they are managed separately. Mixing unleaded solder and leaded solder will cause detachment phenomenon.

– JAPANESE –

各種薬品の取り扱いについて

現在使用されている薬品の中には揮発性の高い薬品もあります。
それらを不用意に取り扱い蒸発させてしまうと，環境や健康へ影響を与えたり，資源の無駄使いになります。
各種薬品は，下記の点に注意して取り扱ってください。

- 保管場所を定め，高温になったり直射日光の当たらない場所に密閉して保管してください。
- 小分け(ハンドラップ等)する数は必要最小限に留め，容器による自然蒸発を防いでください。
- 作業に使用しない時は，必ずキャップ等をして自然蒸発を防いでください。
- 薬品を使用する回数を極力少なくし，使用する場合は使用する量だけ容器より出して受け皿に残さないようにしてください。

樹脂系部品の取り扱いについて

本機に使用されている樹脂系の部品は，下記の点に注意して取り扱ってください。

- 清掃には薬品を使用せず，清掃紙や清掃布を使用してください。
  やむを得ず汚れがひどくて薬品を使用する場合は，シンナー，ケトン，エーテルは使用しないでください。
- 各部品の取り付けには指定されたねじを使用し，部品に対して垂直に取り付けてください。
  また，ねじを締め付ける時は，無理な力を加えないでください。

Caution
電池の交換は，正しく行わないと破裂する恐れがあります。
電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。
使用済み電池は，取扱指示に従って処分してください。

サービス，点検時には次のことにご注意ください。

1. 注意事項をお守りください。
   サービスのとき特に注意を要する個所については，キャビネット，シャーシ，部品などにラベルや捺印で注意事項を表示しています。これらの注意書き及び取扱説明書等の注意事項を必ずお守りください。
2. 指定部品のご使用を
   セットの部品は難燃性や耐電圧など安全上の特性を持ったものとなっています。
   従って交換部品は，使用されていたものと同じ特性の部品を使用してください。
   特に回路図，部品表に⚠印で指定されている安全上重要な部品は必ず指定のものをご使用ください。
3. 部品の取付けや配線の引きまわしはもとどおりに
   安全上，チューブやテープなどの絶縁材料を使用したり，プリント基板から浮かして取付けた部品があります。
   また内部配線は引きまわしやクランパによって発熱部品や高圧部品に接近しないよう配慮されていますので，これらは必ずもとどおりにしてください。
4. サービス後は安全点検を
   サービスのために取外したネジ，部品，配線がもとどおりになっているか，またサービスした個所の周辺を劣化させてしまったところがないかなどを点検し，安全性が確保されていることを確認してください。
5. チップ部品交換時の注意
   - 取り外した部品は再使用しないでください。
   - タンタルコンデンサのマイナス側は熱に弱いため交換時は注意してください。
6. フレキシブルプリント基板の取扱いについて
   - こて先温度を270℃前後にして行なってください。
   - 同一パターンに何度もコテ先を当てないでください。
     (3回以内)
   - パターンに力が加わらないよう注意してください。

無鉛半田について

本機には無鉛半田が使用されています。
無鉛半田を使用している基板には，無鉛(Lead Free)を意味するレッドフリーマークがプリントされています。
(**注意：**基板サイズによっては，無鉛半田を使用していてもレッドフリーマークがプリントされていないものがあります)

: レッドフリーマーク

無鉛半田は，下記の点に注意して使用してください。

- 半田こてのこて先温度は約350℃に設定してください。
  温度調節が無理な場合は，高温短時間で作業を行ってください。
  注意：半田こてを長く当てすぎると，基板のパターン(銅箔)がはがれてしまうことがありますので，注意してください。また，従来の半田よりも粘性が強いため，IC端子などが半田ブリッジしないように注意してください。
- 半田こてのこて先は，必ず無鉛半田用と有鉛半田用に分けて管理してください。
  無鉛半田と有鉛半田が混在すると剥離現象が発生してしまいます。

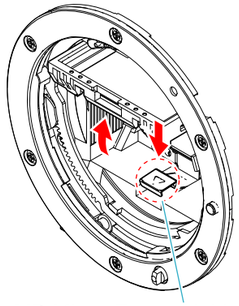
1. SERVICE NOTE

– ENGLISH –

1-1. METHOD FOR REPLACING THE P.O.I.

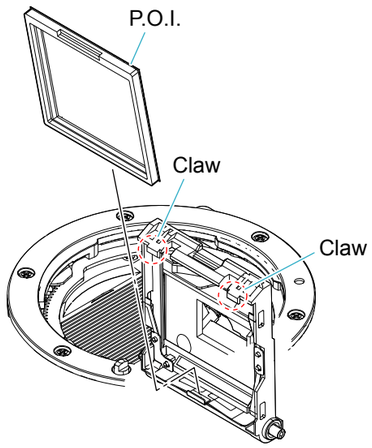
Method of Removal

(1) Press the MB Mirror Frame Holder Lock SP to raise the P.O.I.



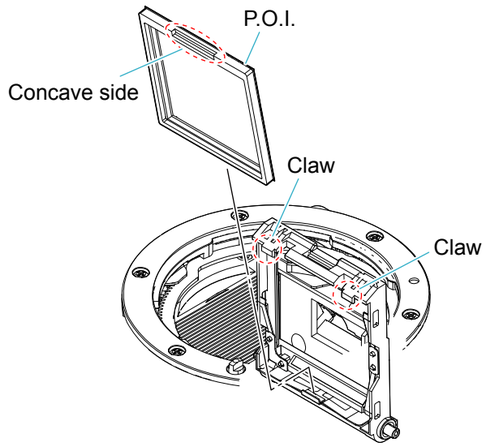
MB Mirror Frame Holder Lock SP

(2) Unjoint the two claws while pressing the P.O.I. backward.



Method of Attachment

(1) When attaching the P.O.I., make the concave side of it face the front and attach it downward.



1-2. PRECAUTION ON REPLACING THE AM-022 BOARD

Destination Data

When you replace to the repairing board, the written destination data of repairing board also might be changed to original setting.

USB Serial No.

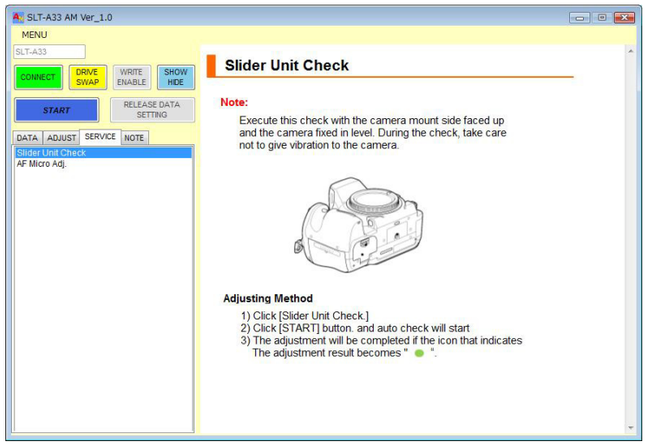
The set is shipped with a unique ID (USB Serial No.) written in it.
This ID has not been written in a new board for service, and therefore it must be entered after the board replacement.

1-3. METHOD FOR CHECKING THE AS SLIDER UNIT (863)

Make sure to confirm below before replacing the AS Slider B Assy or the AS Holder Actuator Assy.

(1) Remove the CV Rear Cover Assy (863), and temporally mount the AS Slider Unit (863).
(2) Set the AS Slider Unit (863) upwards as shown in figure, and put it on a stable place.

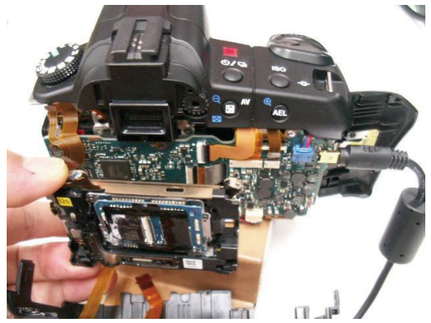
(3) Select “Slider Unit Check” of the adjustment software, and then confirm the movement to the directions of Pitch and Yaw, and if an error occurs, replace it with the component part corresponding to the movement.


SLT-A33 AM Ver_1.0
MENU
SLT-A33
CONNECT
DRIVE SWAP
WRITE ENABLE
SHOW HIDE
START
RELEASE DATA SETTING
DATA
ADJUST
SERVICE
NOTE
Slider Unit Check
AF Micro Adj.
Slider Unit Check
Note:
Execute this check with the camera mount side faced up and the camera fixed in level. During the check, take care not to give vibration to the camera.
Adjusting Method
1) Click [Slider Unit Check.]
2) Click [START] button. and auto check will start.
3) The adjustment will be completed if the icon that indicates The adjustment result becomes " ".

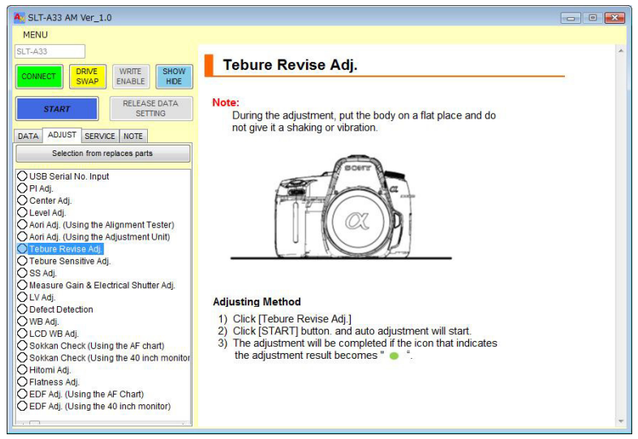
1-4. METHOD FOR ADJUSTING THE TEBURE REVISE

Make sure to confirm below after replacing the AS Slider B Assy or the AS Holder Actuator Assy.

(1) Remove the CV Rear Cover Assy (863), temporally mount the AS Slider Unit (863) mounted with the Imager Sensor, and then set up the camera body and hold the AS Slider Unit (863) as shown in figure.



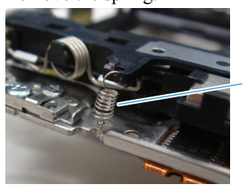
(2) Select “Slider Unit Check” of the adjustment software, and then confirm if the result is OK.
(3) Select “Tebure Revise Adj.” of the adjustment software, and then confirm if the result is OK.
(4) Mount the AS Slider Unit (863) to the camera.



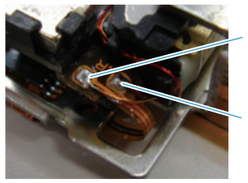
1-5. METHOD FOR REPLACING THE AS SLIDER B ASSY

Removal Procedure

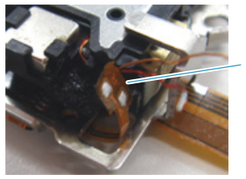
(1) Remove the spring.



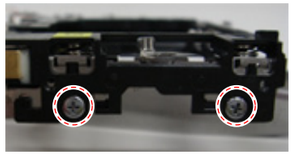
(2) Remove the solder on the enamel wires at two places.



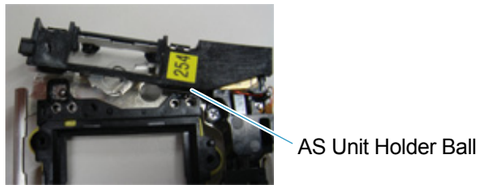
(3) Remove the flexible board from the AS Slider B Assy.



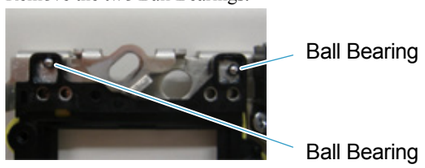
(4) Remove the two screws.



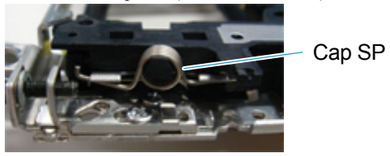
(5) Remove the AS Unit Holder Ball.



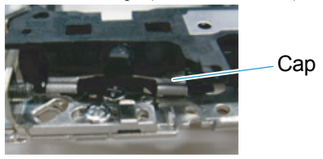
(6) Remove the two Ball Bearings.



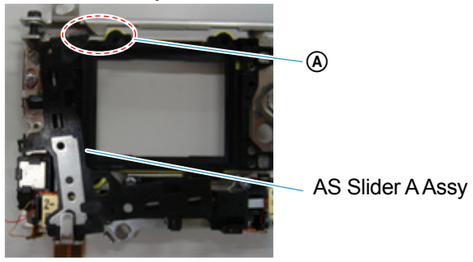
(7) Remove the Cap SPs (for Pitch and Yaw).



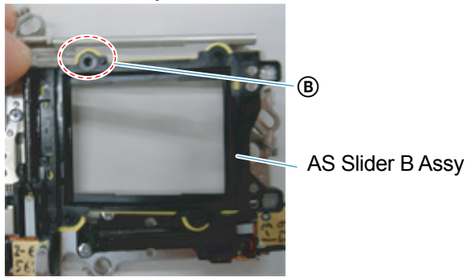
(8) Remove the Caps (for Pitch and Yaw).



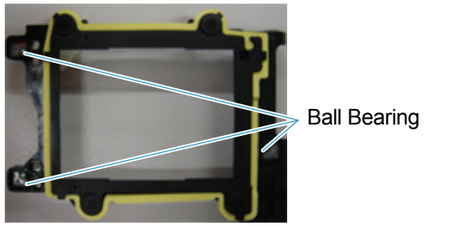
(9) Remove the AS Slider A Assy.
It can be done easily if Ⓐ is removed beforehand.



(10) Remove the AS Slider B Assy.
It can be done easily if Ⓑ is removed beforehand.



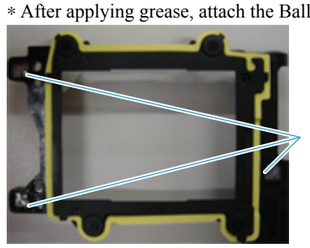
(11) Remove the three Ball Bearings.

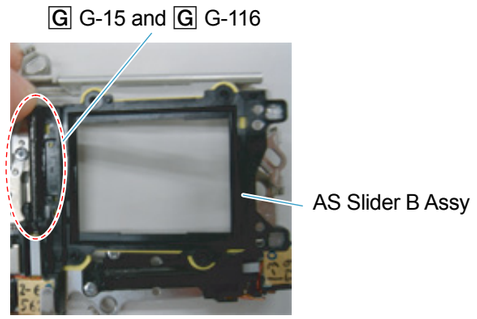


Assembly Procedure
Note: Make sure to perform the assembly procedures after assembling the AS Holder Actuator Assy.

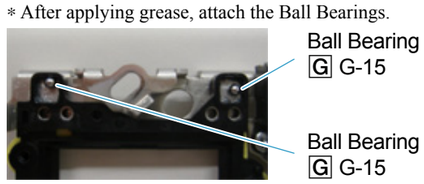
The assembly procedure is the reverse of the removal procedure.
Apply grease to the portions indicated below.

* After applying grease, attach the Ball Bearings.





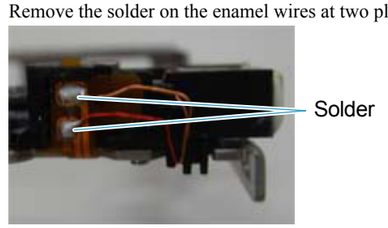
* After applying grease, attach the Ball Bearings.



1-6. METHOD FOR REPLACING THE AS HOLDER ACTUATOR ASSY

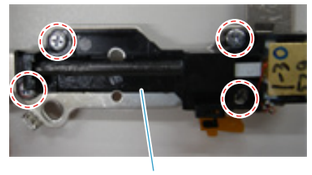
Removal Procedure
Note: Make sure to perform the removal procedures after removing the AS Slider B Assy.

(1) Remove the solder on the enamel wires at two places.



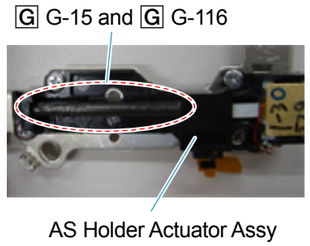
(2) Remove the flexible board from the hook on the AS Holder Actuator Assy.

(3) Remove the four screws to remove the AS Holder Actuator Assy.



Assembly Procedure
Note: Make sure to perform the assembly procedures before assembling the AS Slider B Assy.

The assembly procedure is the reverse of the removal procedure.
Apply grease to the portions indicated below.

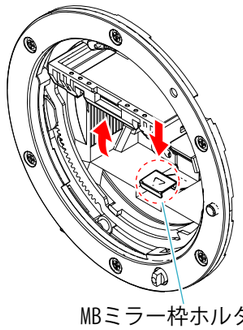


1-7. GPS RECEIVING CHECK (SLT-A55V/A55VL/A55VY)

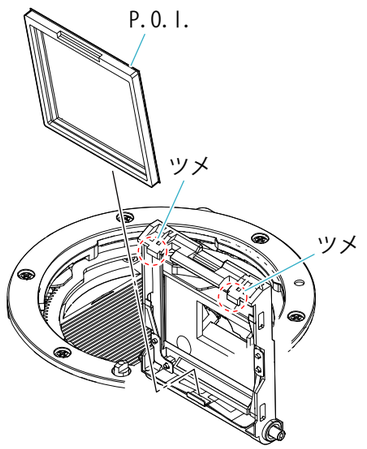
After a part of set was replaced or after the set was assembled, check the reception of GPS signal.

1-1. P.O.I.の交換方法

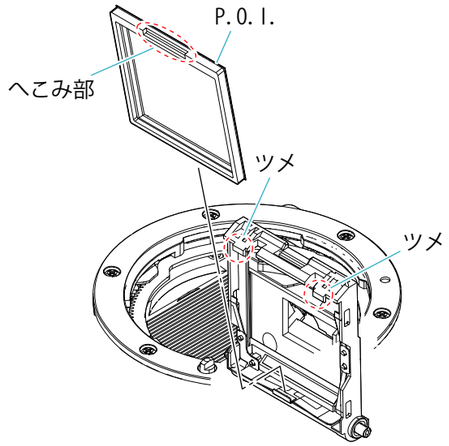
取り外し方
(1) MBミラー枠ホルダ係止SPを押し，P.O.I.をアップしてください。



(2) P.O.I.を奥へ押しながらツメ2箇所を取り外してください。



組み付け方
(1) P.O.I.を組み付ける際，下図のようにP.O.I.へこみ部が手前，下向きとなるように取り付けてください。



1-2. AM-022基板交換時の注意

仕向けデータ

補修用基板と交換する時，補修用基板に書かれている仕向けデータは元の設定と異なっている場合があります。

USBシリアルNo.

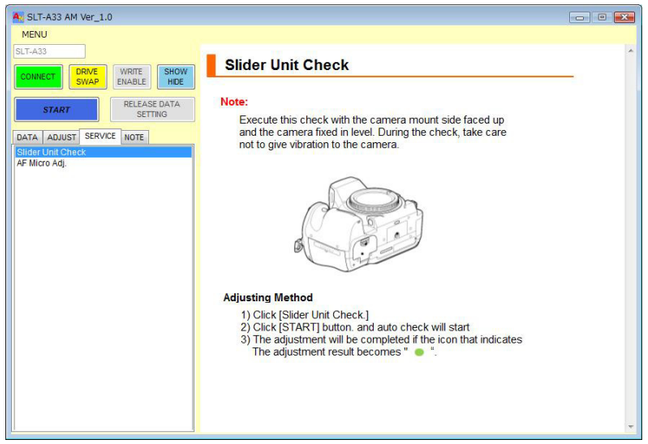
セットは，1台毎に異なる固有のID(USB Serial No.)を書き込んだ後，出荷されています。
新品の補修用基板には，このIDが書き込まれていないので，基板交換後にIDを入力する必要があります。

1-3. ASスライダーユニット(863)チェック方法

ASスライダー B Assy又はASアクチュエータホルダAssyを交換する前に，必ず以下の確認を行ってください。

(1) CVリアカバー Assy(863)を取り外し，ASスライダーユニット(863)を仮付けします。
(2) ASスライダーユニット(863)を写真のように上向きにセットし，ボディを安定した場所に置きます。

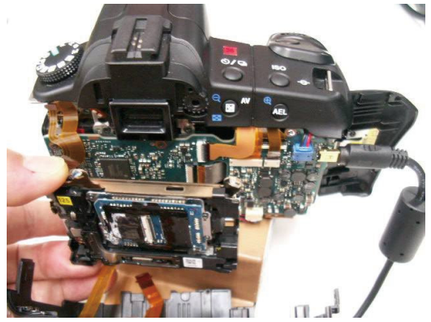
(3) 調整ソフトのSlider Unit Checkを行い，PITCH，YAW方向の動きを確認し，エラーが出た場合，PITCH，YAWの動きに対応した部品に交換します。



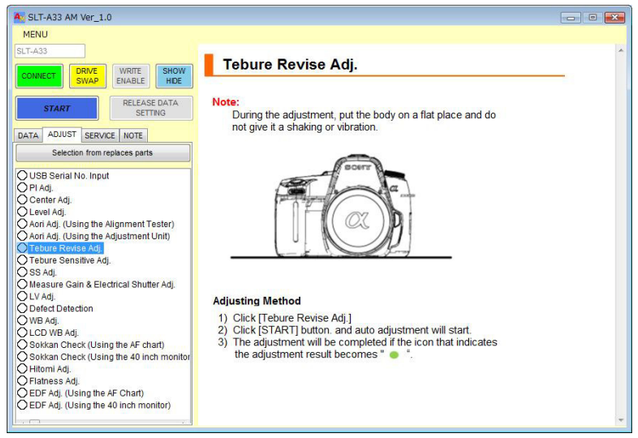
1-4. 手ぶれリバイス調整方法

ASスライダー B Assy又はASアクチュエータホルダAssyを交換した後は，必ず以下の確認を行ってください。

(1) カメラのCVリアカバー Assy(863)を取り外し，ASスライダーユニット(863)にイメージャを組み付けた状態で仮付けして，ボディ，ASスライダーユニット(863)を立てた状態を保持します。

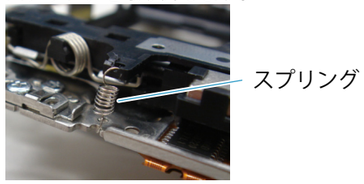


(2) 調整ソフトのSlider Unit Checkを行い，調整結果がOKか確認します。
(3) 調整ソフトのTebure Revise Adjを行い，調整結果がOKか確認します。
(4) ASスライダーユニット(863)をセットに組み付けます。

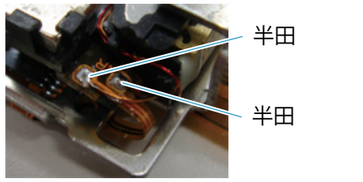


1-5. ASスライダー B ASSYの交換方法

取り外し方
(1) スプリングを取り外します。

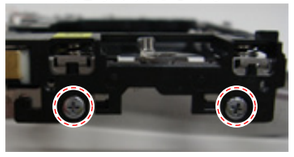


(2) エナメル線の半田付け2箇所を取り外します。

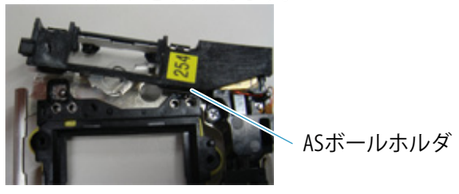


(3) フレキシブル基板をASスライダーB Assyから取り外します。

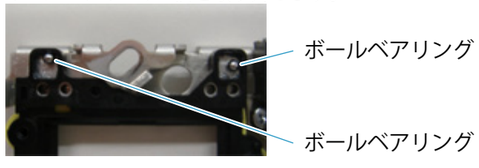
(4) ビス2本を取り外します。



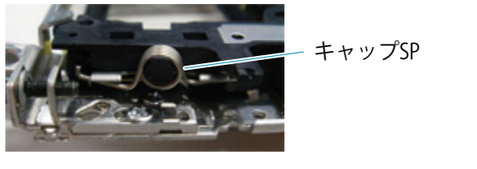
(5) ASボールホルダを取り外します。



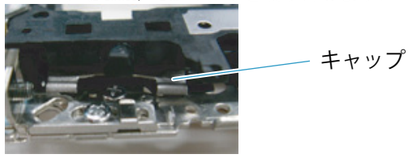
(6) ボールベアリング2個を取り外します。



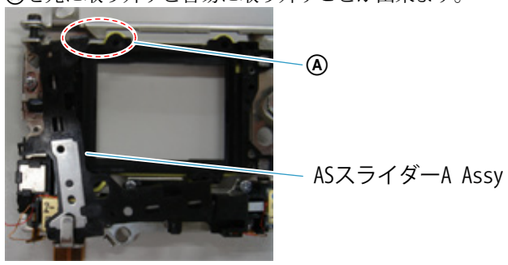
(7) キャップSP(Pitch，Yaw共に)を取り外します。



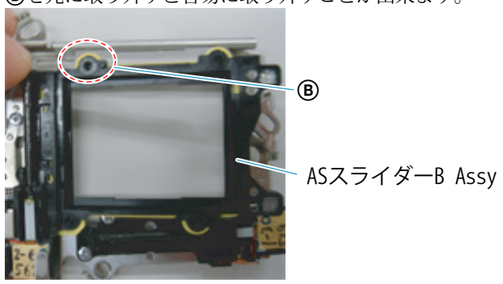
(8) キャップ(Pitch，Yaw共に)を取り外します。



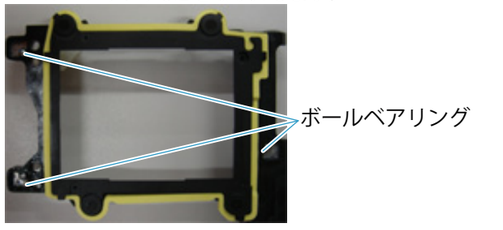
(9) ASスライダー A Assyを取り外します。
Ⓐを先に取り外すと容易に取り外すことが出来ます。



(10) ASスライダー B Assyを取り外します。
Ⓑを先に取り外すと容易に取り外すことが出来ます。



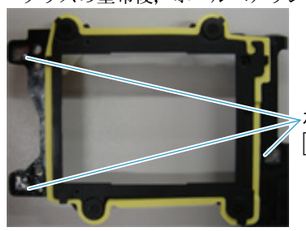
(11) ボールベアリング3個を取り外します。



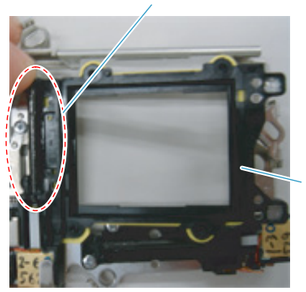
組み付け方
注意: ASアクチュエータホルダAssyを組み付けた後に作業を行ってください。

組み付け時は，取り外し手順の逆に行ってください。
下記指示部に，グリスを塗布してください。

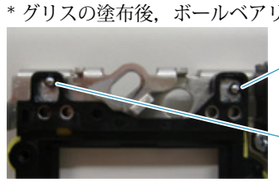
* グリスの塗布後，ボールベアリングを組み付けてください。



G G-15およびG G-116



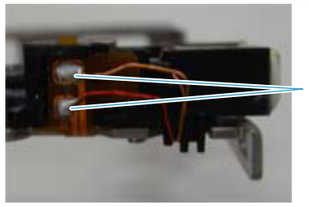
* グリスの塗布後，ボールベアリングを組み付けてください。



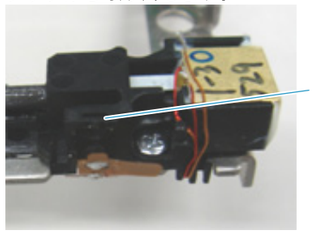
1-6. ASアクチュエータホルダASSYの交換方法

取り外し方
注意: ASスライダー B Assyを取り外した後に作業を行ってください。

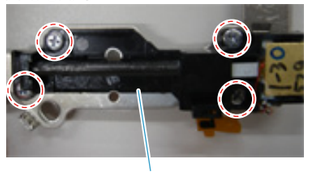
(1) エナメル線の半田付けを取り外します。



(2) フレキシブル基板をASアクチュエータホルダAssyのフックから取り外します。



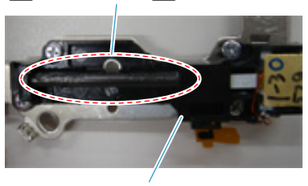
(3) ビス4本を取り外し，ASアクチュエータホルダAssyを取り外します。



組み付け方
注意: ASスライダー B Assyを組み付ける前に作業を行ってください。

組み付け時は，取り外し手順の逆に行ってください。
下記指示部に，グリスを塗布してください。

G G-15およびG G-116



1-7. GPS 受信確認 (SLT-A55V/A55VL/A55VY)

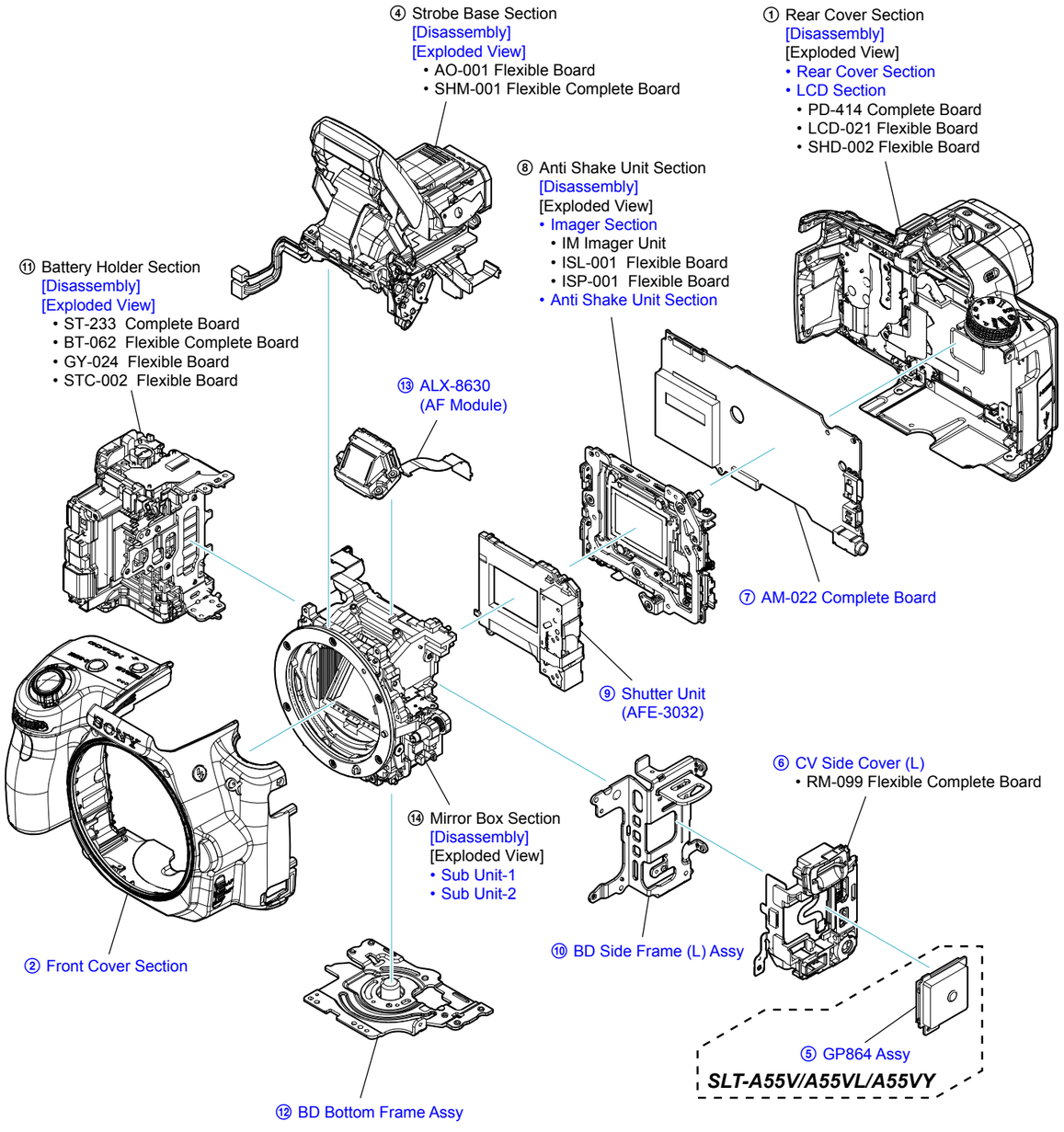
部品交換やセット組み立て後は，GPS 信号受信確認を行ってください。

2. REPAIR PARTS LIST

IDENTIFYING PARTS

Follow the disassembly in the given numerical order.

Note: The procedure ⑤ is not necessary for SLT-A33/A33L/A33Y/A55/A55L.



Link DISCHARGING OF THE CHARGING CAPACITOR | ACCESSORIES | ASSEMBLY

(ENGLISH)

NOTE:
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

(JAPANESE)

【使用上の注意】
- -XX, -Xは標準化部品のため, セットに付いている部品と異なる場合があります。
- *印の部品は常備在庫しておりません。
- ここに記載されている部品は, 補修用部品であるため, 回路図及びセットに付いている部品と異なる場合があります。

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- Color Indication of Appearance Parts
  Example:
  (SILVER) : Cabinet's Color
  (Silver) : Parts Color

お願い

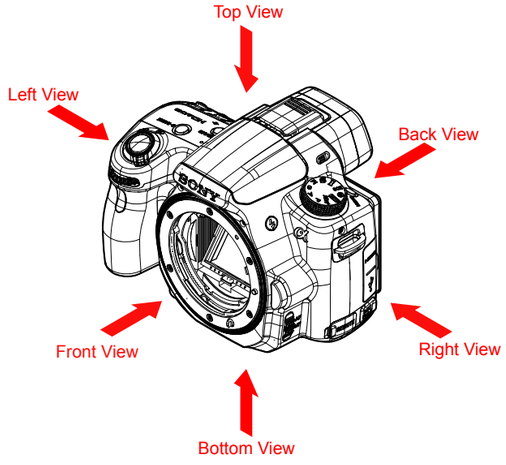
図面番号で部品を指定するときは基板名又はブロックを併せて指定してください。

⚠印の部品，または⚠印付の点線で囲まれた部品は，安全性を維持するために，重要な部品です。
従って交換時は，必ず指定の部品を使用してください。

- 外装部品色表示
  例：
  (SILVER) ：セットの色を表す。
  (Silver) ：部品の色を表す。

- Abbreviation
  AUS : Australian model
  CH : Chinese model
  CND : Canadian model
  J : Japanese model
  JE : Tourist model
  KR : Korea model

View Position

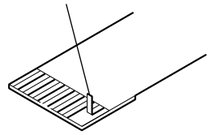


– ENGLISH –

NOTE FOR REPAIR

- Make sure that the flat cable and flexible board are not cracked or bent at the terminal.
  Do not insert the cable insufficiently nor crookedly.
- When remove a connector, do not pull at wire of connector. It is possible that a wire is snapped.
- When installing a connector, do not press down at wire of connector. It is possible that a wire is snapped.
- Do not apply excessive load to the gilded flexible board.

Cut and remove the part of gilt which comes off at the point. (Be careful that some pieces of gilt may be left inside)

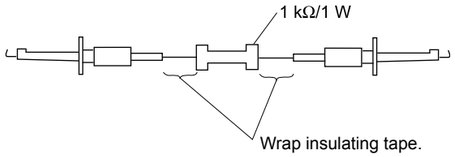


DISCHARGING OF THE CHARGING CAPACITOR

The charging capacitor is charged up to the maximum 330 V potential.
There is a danger of electric shock by this high voltage when the capacitor is handled by hand. The electric shock is caused by the charged voltage which is kept without discharging when the main power of the unit is simply turned off. Therefore, the remaining voltage must be discharged as described below.

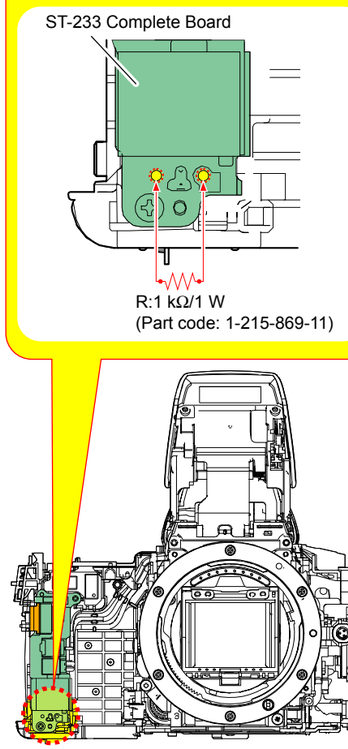
Preparing the Short Jig

To preparing the short jig, a small clip is attached to each end of a resistor of 1 kΩ /1 W (1-215-869-11).
Wrap insulating tape fully around the leads of the resistor to prevent electrical shock.



Note: High-voltage cautions

Discharging the Capacitor
Short-circuit between the two points with the short jig about 10 seconds.
To avoid the spark with the metal plate, wrap the short jig with the insulation tape.



SUBSIDIARY MATERIALS

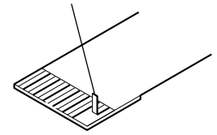
G: Grease
G-15 (J-6082-619-A)
G-85 (J-6082-626-A)
G-116 (J-6082-628-A)

– JAPANESE –

修理時の注意

- フラットケーブルおよびフレキシブル基板の端子面に欠け，折れ等がないことを確認する。
  また，コネクタへの接続は，差し込み不足や斜め差しにならないように注意する。
- コネクタを取り外す時に，線材部(極細)を持って引っ張ると断線する恐れがありますので，絶対に線材部(極細)を持って引っ張らないでください。
- 線材部(極細)を押さえながらコネクタを差し込むと，線材部(極細)が断線する恐れがありますので，絶対に線材部(極細)には負担をかけないでください。
- 金メッキされているフレキシブル基板には，強い負担をかけないでください。

先端の剥がれたメッキ部はカットして除去してください。
（メッキ破片がコネクタ内に残っている場合もあるので注意してください）

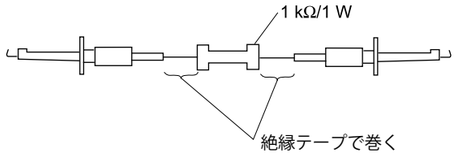


ストロボ用充電コンデンサの放電

ストロボ用充電コンデンサは最大330Vの電圧で充電されています。
この高電圧で充電されたコンデンサに手を触れた場合，電気ショックを受けます。この高電圧には単にセットの電源を切っただけでは放電されず，残留しています。このため，下記の方法で残留電圧を放電してください。

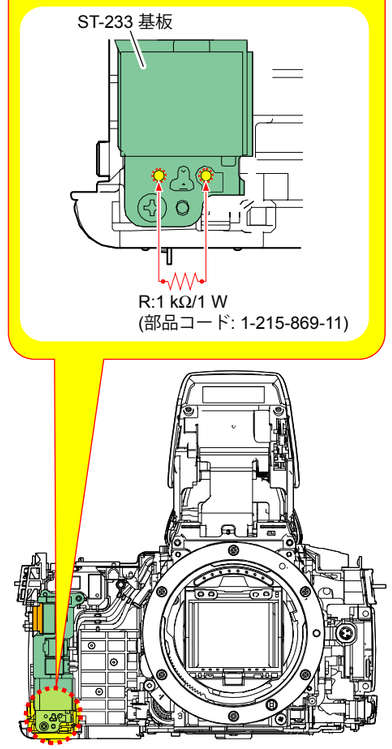
ショート治具の準備

ショート治具は1kΩ/1W抵抗(1-215-869-11)の両端に小型のクリップを接続して作成します。
抵抗器は絶縁テープで完全に覆い電気ショックを受けないようにしてください。



Note: 高電圧の警告

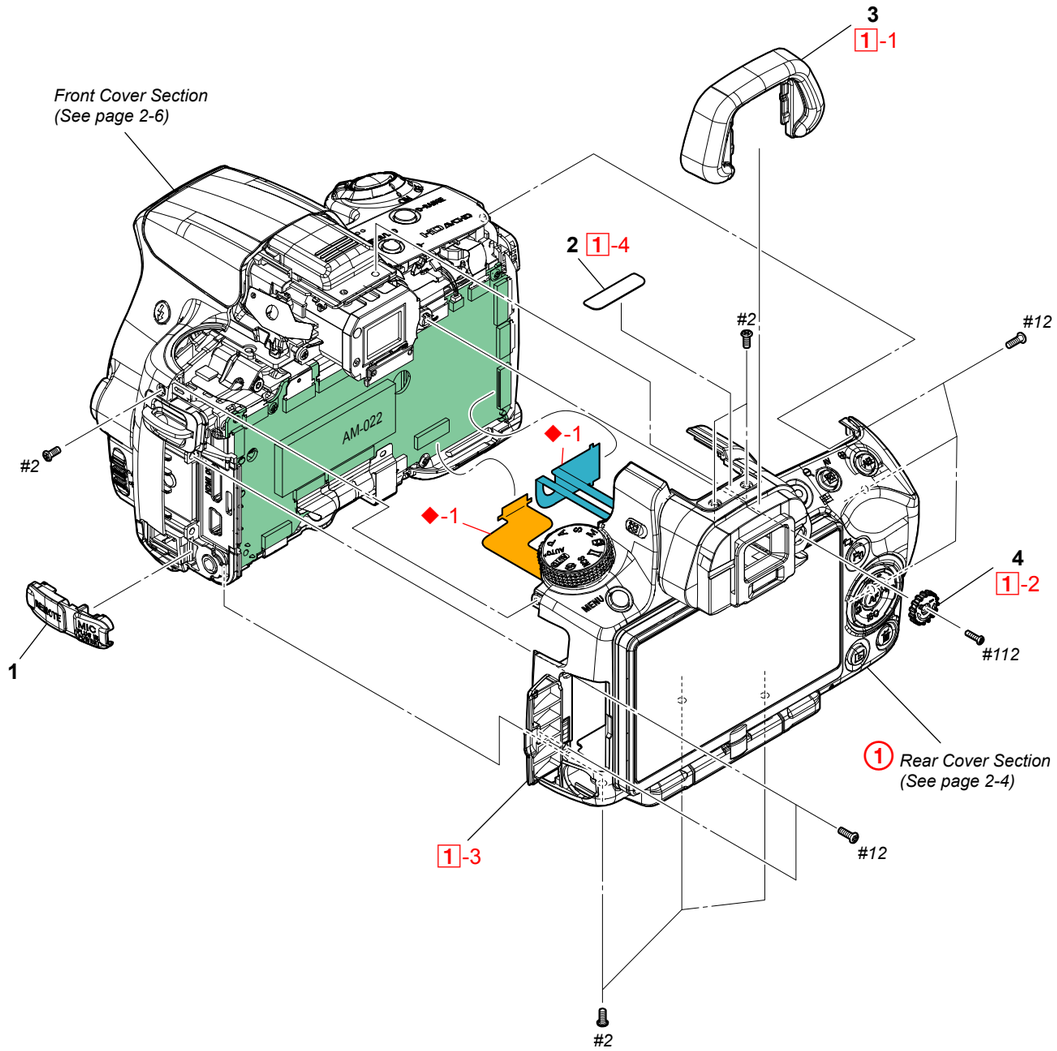
コンデンサの放電
フラッシュユニットの電源コンデンサの端子間をショート治具で約10秒間接続する。
治具が板金に触れて火花が散るのを防ぐため，ショート治具を絶縁テープで覆ってください。



副資材

G: Grease
G-15（J-6082-619-A）
G-85（J-6082-626-A）
G-116 (J-6082-628-A)

2-1. EXPLODED VIEWS
2-1-1. OVERALL SECTION



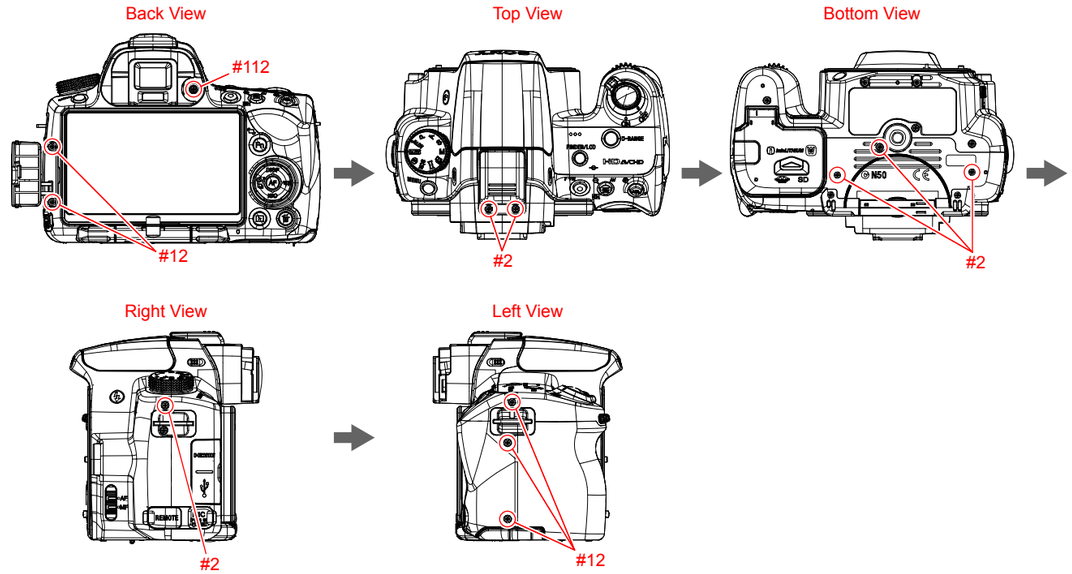
Ref. No.	Part No.	Description
1	4-192-214-01	CV RMC COVER
* 2	4-194-534-01	CV SS COVER SHEET
3	4-192-215-01	VM EYE CUP
* 4	4-154-680-01	CV DIOPTER ADJUST DIAL (857)

Ref. No.	Part No.	Description
#2	2-635-562-31	SCREW (M1.7)
#12	3-080-204-21	SCREW, TAPPING, P2
#112	2-178-410-11	TITE (UB TITE) 1.4

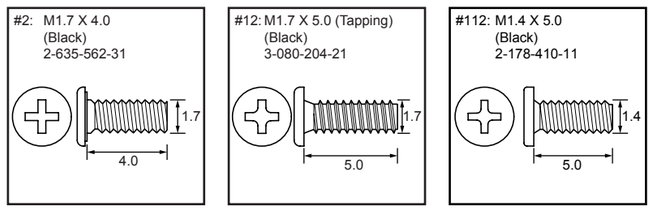
DISASSEMBLY

1. Remove to numerical order (①) in the left figure.
2. The meaning of the sign in left figure is as follows. Be careful when it removes.
   ◆-X: Flexible Board, Flat Cable, Harness

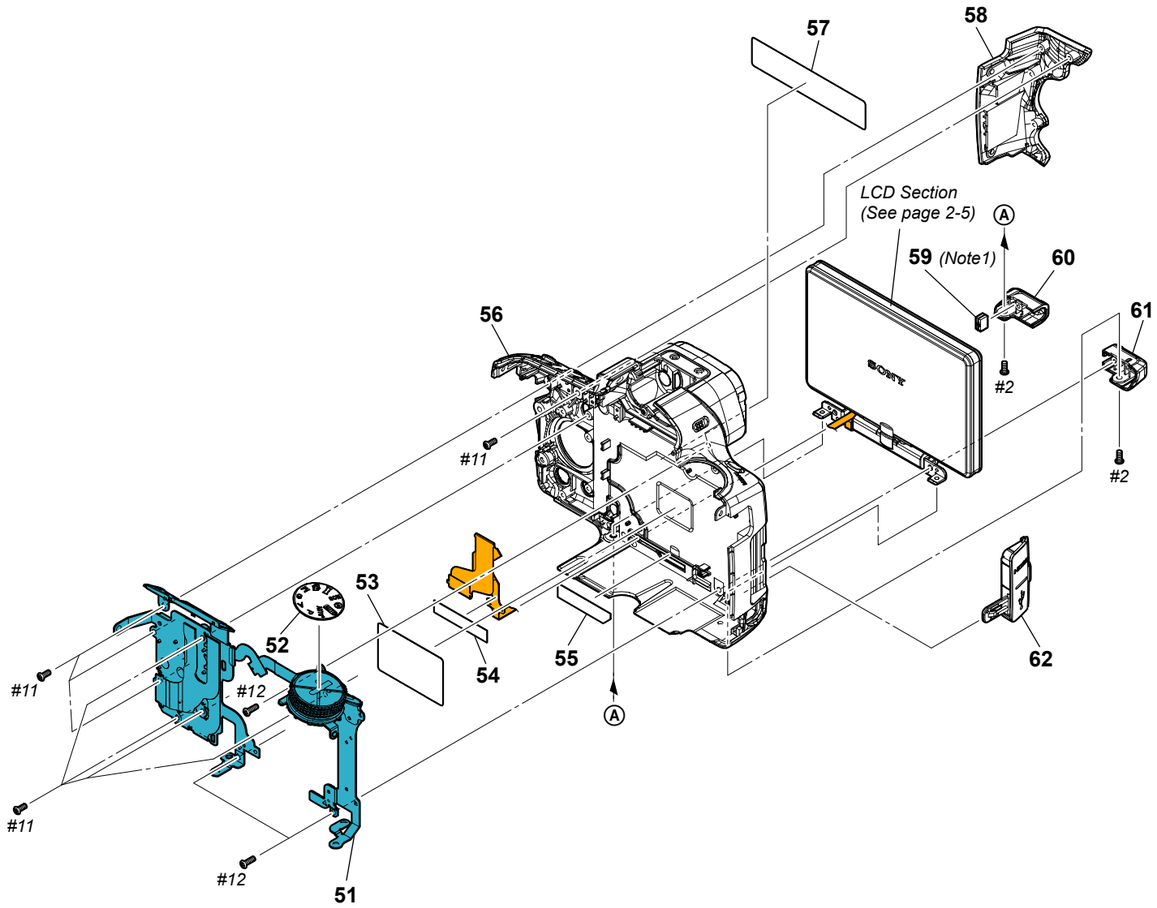
① VM Eye Cup (1-1) → #112 X 1 → CV Diopter Adjust Dial (857) (1-2) → CV Jack Cover Open (1-3) → #12 X 2 → CV SS Cover Sheet (1-4) → #2 X 6 → #12 X 3



Screw



2-1-2. REAR COVER SECTION

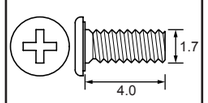


Ref. No.	Part No.	Description
51	1-489-077-11	SWITCH BLOCK, CONTROL (RS86300)
52	4-192-216-01	CV MODE DIAL PLATE (863) (SLT-A33/A33L/A33Y)
52	4-192-216-11	CV MODE DIAL PLATE (864) (SLT-A55/A55V/A55L/A55VL/A55VY)
53	4-192-222-01	BD FUSE REPAIR LABEL
* 54	4-192-302-01	CV TAPE AS (0526)
* 55	4-193-473-01	CV REAR TAPE (BK)
56	X-2548-488-2	CV REAR COVER ASSY (863)
* 57	4-257-255-01	CV REAR CAUTION LABEL

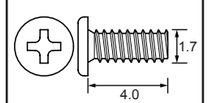
Ref. No.	Part No.	Description
58	4-192-294-01	CV REAR GRIP
59	1-471-504-11	MAGNET (ND5X3.5X2.4-B) (Note1)
* 60	4-192-308-01	CV LCD HINGE SIDE COVER (G)
* 61	4-192-307-01	CV LCD HINGE SIDE COVER (L)
62	4-192-213-01	CV JACK COVER
#2	2-635-562-31	SCREW (M1.7)
#11	3-078-890-11	SCREW, TAPPING
#12	3-080-204-21	SCREW, TAPPING, P2

Screw

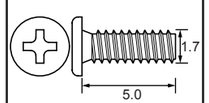
#2: M1.7 X 4.0
(Black)
2-635-562-31



#11: M1.7 X 4.0 (Tapping)
(Silver)
3-078-890-11

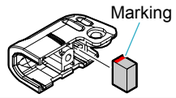


#12: M1.7 X 5.0 (Tapping)
(Black)
3-080-204-21

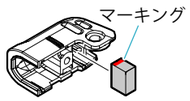


Note

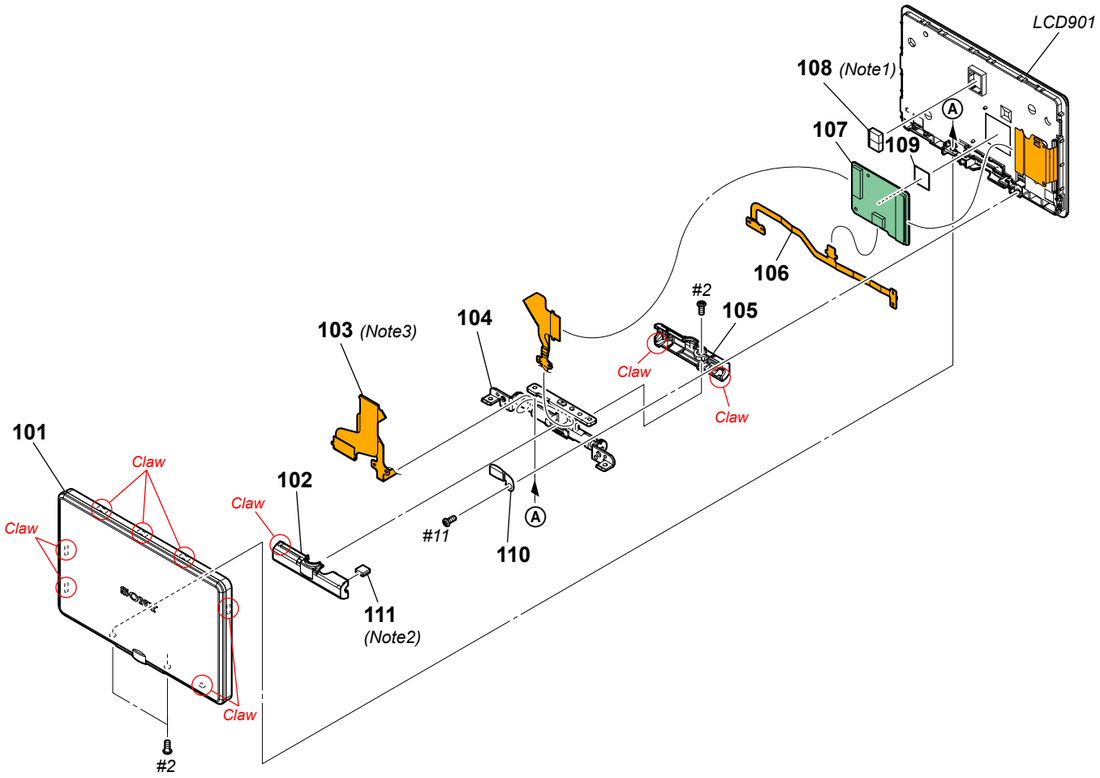
Note1: Put the marking side in the position as shown in the figure when you install the magnet.



Note1: マグネットを取付ける際は，マーキング面を図の位置にあわせてください。



2-1-3. LCD SECTION

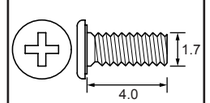


Ref. No.	Part No.	Description
101	4-192-304-01	CV P CABINET (C)
* 102	4-192-305-01	CV LCD HINGE COVER (C)
103	1-880-883-11	LCD-021 FLEXIBLE BOARD (Note3)
104	X-2548-489-1	CV LCD HINGE ASSY
* 105	4-192-306-01	CV LCD HINGE COVER (M)
106	1-881-235-21	SHD-002 FLEXIBLE BOARD
107	A-1781-920-A	PD-414 BOARD, COMPLETE
* 108	1-471-558-11	MAGNET (NEO44) (Note1)
109	4-192-309-01	EM LCD BOARD TAPE

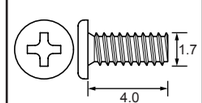
Ref. No.	Part No.	Description
* 110	4-192-303-01	EM PD GROUND PLATE
* 111	1-471-559-11	MAGNET (NEO44) (Note2)
LCD901	A-1789-529-A	P CAB M BLOCK ASSY (SERVICE)
#2	2-635-562-31	SCREW (M1.7)
#11	3-078-890-11	SCREW, TAPPING

Screw

#2: M1.7 X 4.0
(Black)
2-635-562-31

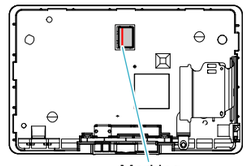


#11: M1.7 X 4.0 (Tapping)
(Silver)
3-078-890-11

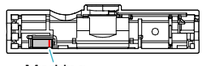


Note

Note1: Put the marking side in the position as shown in the figure when you install the magnet.

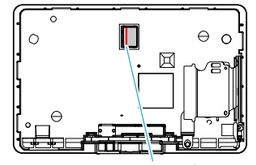


Note2: Put the marking side in the position as shown in the figure when you install the magnet.

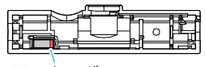


Note3: Refer to “Assembly-1: Method of attachment of LCD-021 Flexible Board” when you assemble.

Note1: マグネットを取付ける際は，マーキング面を図の位置にあわせてください。

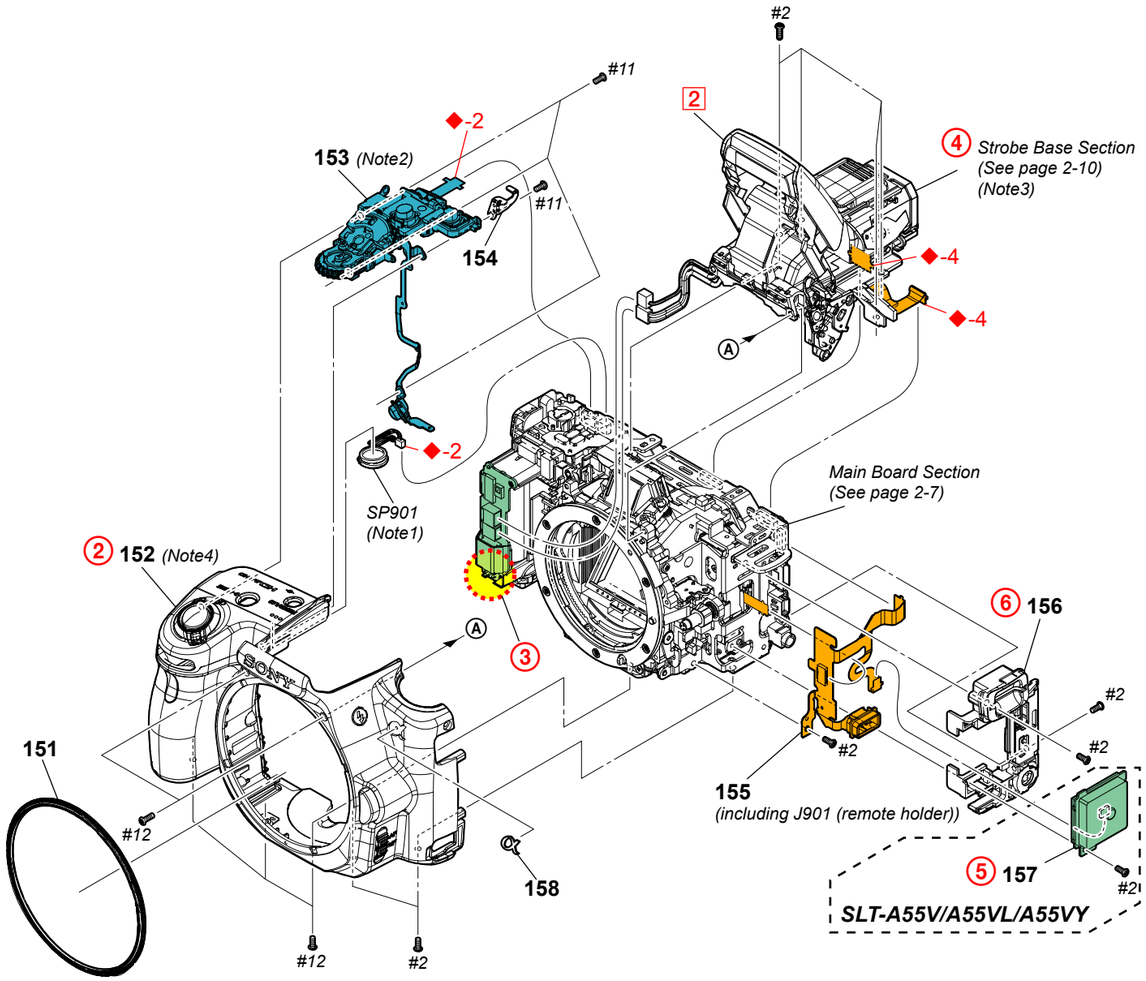


Note2: マグネットを取付ける際は，マーキング面を図の位置にあわせてください。



Note3: 組立時は“Assembly-1: Method of attachment of LCD-021 Flexible Board”を参照してください。

2-1-4. FRONT COVER SECTION



Note2: Refer to “Assembly-4: Assemble Control Switch Block (TK86300)” when you assemble.

Note3: Refer to “Assembly-3: Routing of Flash Unit Harness” when you assemble.

Note4: Refer to “Assembly-10: Assemble CV Front Cover Assy” when you assemble.

Ref. No.	Part No.	Description
151	4-192-212-01	CV DECORATION RING
152	X-2548-486-1	CV FRONT COVER ASSY (863) (SLT-A33/A33L/A33Y) (Note4)
152	X-2548-490-1	CV FRONT COVER ASSY (864) (SLT-A55V/A55VL/A55VY) (Note4)
152	X-2548-491-1	CV FRONT COVER ASSY (864CN) (SLT-A55/A55L) (Note4)
153	1-489-072-11	SWITCH BLOCK, CONTROL (TK86300) (Note2)
* 154	4-192-277-01	BD SP HOLDER
155	A-1783-997-A	RM-099 FLEXIBLE BOARD, COMPLETE (including J901 (remote holder))
* 156	4-192-225-01	CV SIDE COVER (L)
157	A-1782-153-A	GP864 ASSY (GP-028) (SLT-A55V/A55VL/A55VY)
158	4-143-883-11	LOGO EMBLEM (A)
SP901	1-858-462-11	LOUDSPEAKER (1.0CM) (Note1)
#2	2-635-562-31	SCREW (M1.7)
#11	3-078-890-11	SCREW, TAPPING
#12	3-080-204-21	SCREW, TAPPING, P2

Note2: 組立時は“Assembly-4: Assemble Control Switch Block (TK86300)”を参照してください。

Note3: 組立時は“Assembly-3: Routing of Flash Unit Harness”を参照してください。

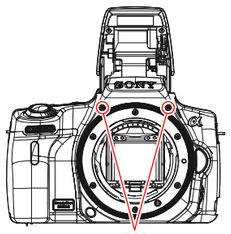
Note4: 組立時は“Assembly-10: Assemble CV Front Cover Assy”を参照してください。

DISASSEMBLY

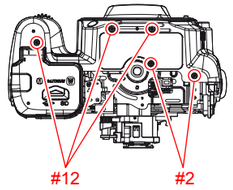
1. Remove to numerical order (② to ⑥) in the left figure.
2. The meaning of the sign in left figure is as follows. Be careful when it removes.
   ◆-X: Flexible Board, Flat Cable, Harness

② #12 X 5 → #2 X 2 → Pop up the Strobe (2)

Front View



Bottom View



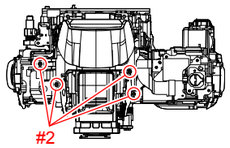
③

DISCHARGING OF THE CHARGING CAPACITOR

ストロボ用充電コンデンサの放電

④ #2 X 4

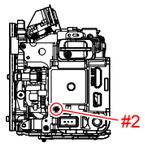
Top View



SLT-A55V/A55VL/A55VY

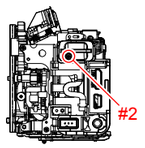
⑤ #2 X 1

Right View

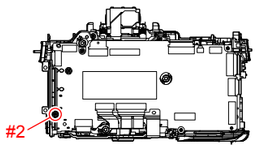


⑥ #2 X 2

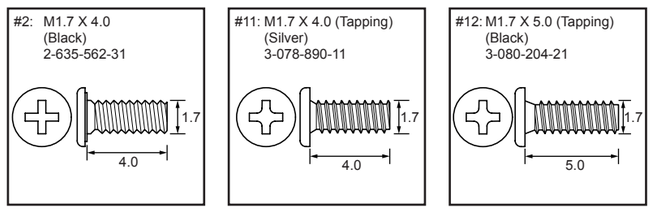
Right View



Back View



Screw

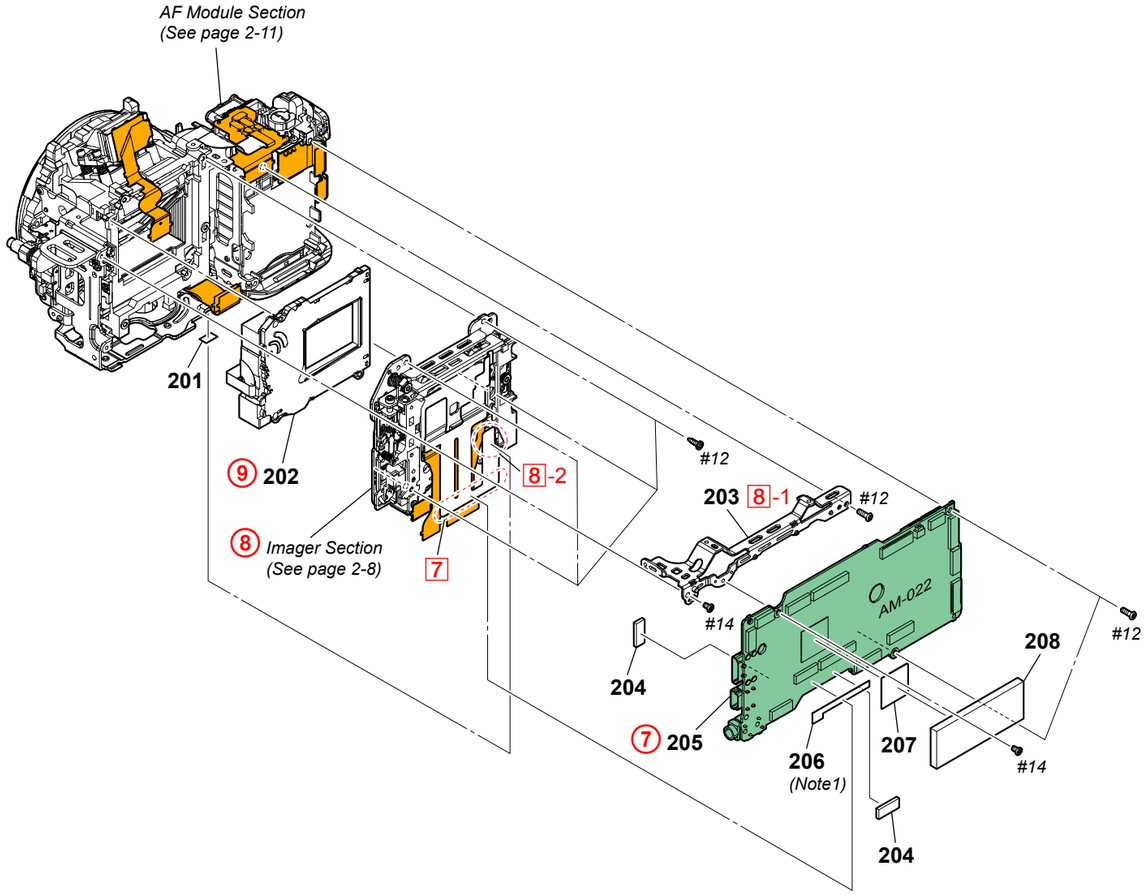


Note

Note1: Refer to “Assembly-2: Routing of Loudspeaker Harness” when you assemble.

Note1: 組立時は“Assembly-2: Routing of Loudspeaker Harness”を参照してください。

2-1-5. MAIN BOARD SECTION



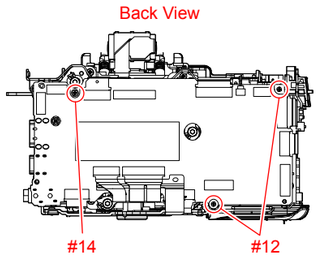
Ref. No.	Part No.	Description
201	4-192-227-01	EM GF TAPE (B)
202	1-487-960-11	SHUTTER UNIT (AFE-3032)
* 203	4-192-220-01	BD TOWER BAR
* 204	4-197-652-02	BD AS CUSHION
205	A-1789-527-A	AM-022 (863) BOARD, COMPLETE (SERVICE) (SLT-A33/A33L/A33Y)
205	A-1790-073-A	AM-022 (864) BOARD, COMPLETE (SERVICE) (SLT-A55/A55V/A55L/A55VL/A55VY)

Ref. No.	Part No.	Description
206	4-192-226-01	EM GF TAPE (A) (Note1)
* 207	4-196-593-01	BD AM NOISE SUPPRESSION SHEET
* 208	4-194-533-01	BD AM RADIATOR SHEET
#12	3-080-204-21	SCREW, TAPPING, P2
#14	2-599-475-11	SCREW (M1.7)

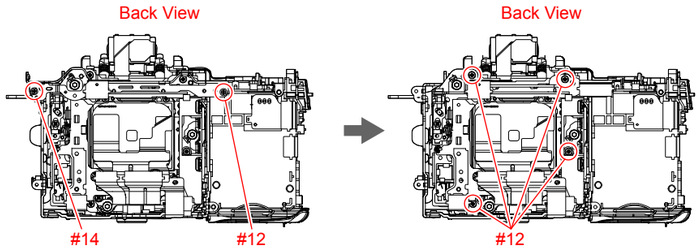
DISASSEMBLY

1. Remove to numerical order (⑦ to ⑨) in the left figure.

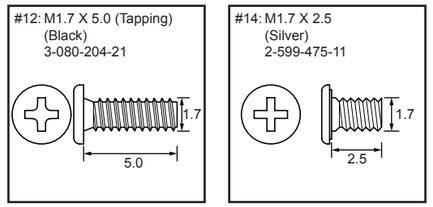
⑦ IM SHEET GRAPHITE (7) → #12 X 2 → #14 X 1



⑧ #12 X 1 → #14 X 1 → BD TOWER BAR (8-1) → IM SHEET GRAPHITE (8-2) → #12 X 4



Screw



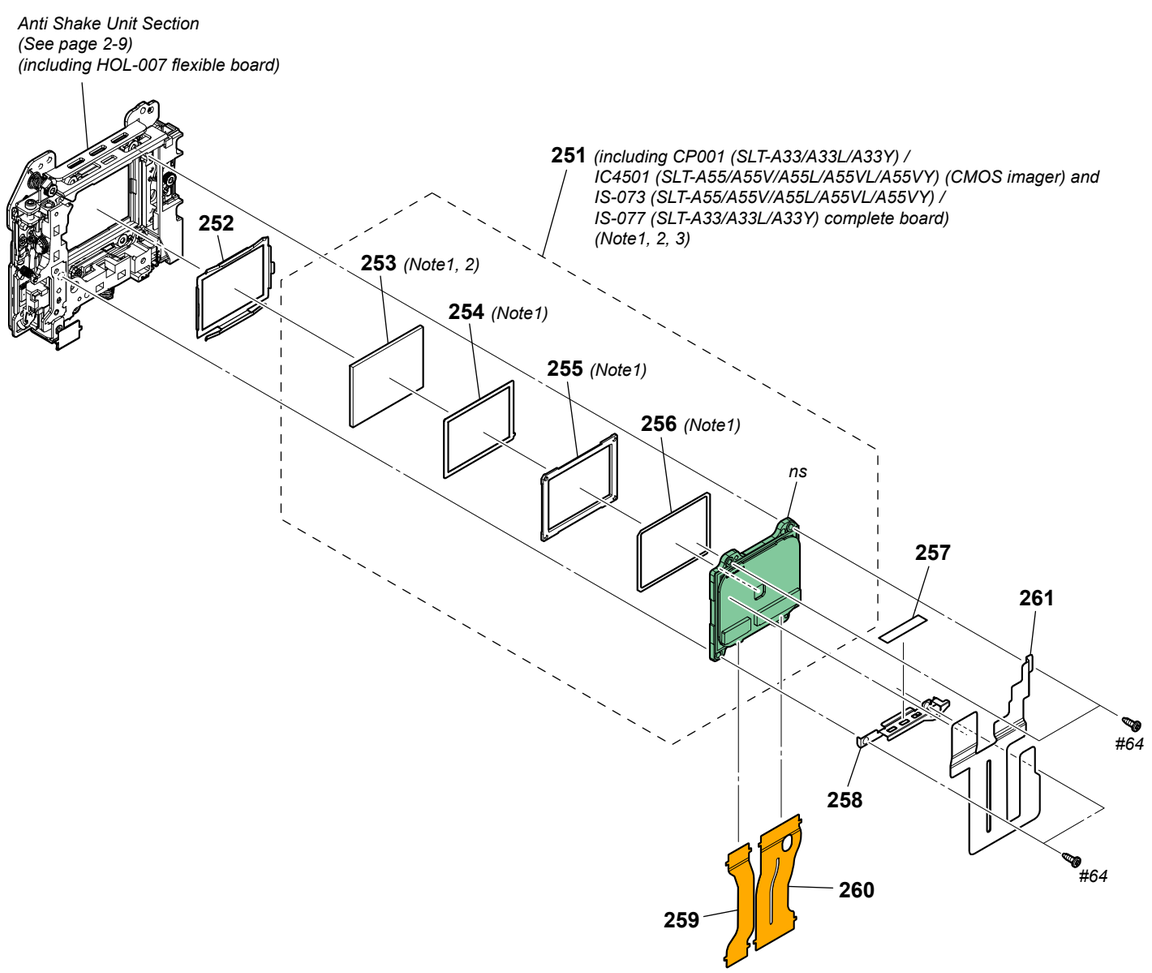
Note

Note1: Refer to "Assembly-9: Note on attachment of EM GF Tape (A) and IM Sheet Graphite" when you assemble.

Note1: 組立時は"Assembly-9: Note on attachment of EM GF Tape (A) and IM Sheet Graphite"を参照してください。

2-1-6. IMAGER SECTION

ns: not supplied



Note2: Refer to "3-2. CLEANING PROCEDURE OF OLPF" on page 3-5 for method of cleaning the OLPF.

Note:3
Precautions for Replacement of Imager
- If the imager has been replaced, carry out all the adjustments for the camera section.
- As the imager may be damaged by static electricity from its structure, handle it carefully like for the MOS IC.
  In addition, ensure that the receiver is not covered with dusts nor exposed to strong light.

Ref. No.	Part No.	Description
251	A-1773-801-A	IM IMAGER UNIT 14M (including CP001 (CMOS imager) and IS-077 complete board) (SLT-A33/A33L/A33Y) (Note1, 2, 3)
251	A-1790-017-A	IM IMAGER UNIT 16M (including IC4501 (CMOS imager) and IS-073 complete board) (SLT-A55/A55V/A55L/A55VL/A55VY) (Note1, 2, 3)
252	4-194-226-01	IM PLATE, LPF RETAINER
253	1-856-102-11	OPTICAL FILTER BLOCK (OFB-01-09) (Note1, 2)
254	4-193-875-01	IM CUTTER, FLARE (Note1)
255	4-185-993-01	IM SHEET, SPACER (Note1)

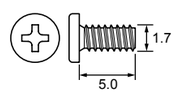
Note2: OLPFの清掃方法は3-5ページの"3-2. CLEANING PROCEDURE OF OLPF"を参照してください。

Note3:
イメージャ交換時の注意
- イメージャを交換した場合は，カメラ部の全調整を行ってください。
- イメージャは構造上，静電気により破壊される恐れがあるため，MOS ICと同様に注意して取り扱ってください。
  また，受光部にはゴミの付着，および強い光がはいることのないように注意してください。

Ref. No.	Part No.	Description
256	4-194-127-01	IM TAPE, SPACER FIXED (Note1)
257	4-194-225-01	IM TAPE FPC GUIDE
* 258	4-194-227-01	IM PLATE GUIDE IMAGER FPC
259	1-880-878-11	ISP-001 FLEXIBLE BOARD
260	1-880-877-11	ISL-001 FLEXIBLE BOARD
261	4-194-224-01	IM SHEET GRAPHITE
#64	2-666-551-21	SCREW, TAPPING, P2

Screw

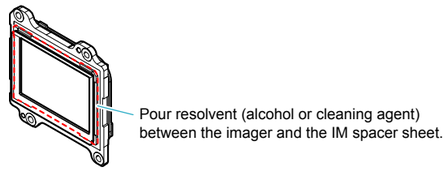
#64: M1.7 X 5.0 (Tapping)
(Silver)
2-666-551-21



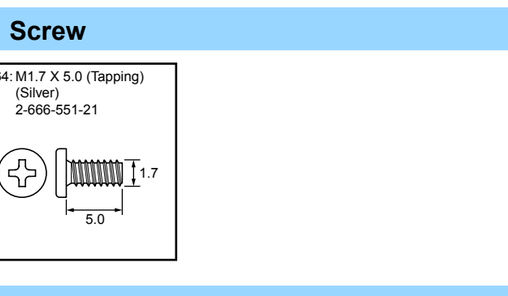
Note

Note1: Refer to the following statements when replacing the Optical filter block.

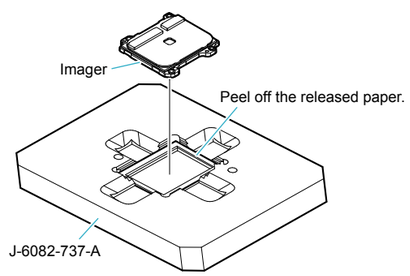
Method of Removal
(1) Pour resolvent (alcohol or cleaning agent) between the imager and the IM spacer sheet.
 * Wait for that the adhesive power of the IM spacer fixed tape weakens.
(2) Remove the IM spacer sheet from the imager.



Method of Attachment
(1) Attach the IM flare cutter and the Optical filter block by aligning them with the outer shape of the IM spacer sheet evenly.
 * The two-layer side of the Optical filter block is on the imager side.
(2) Attach the IM spacer fixed tape by aligning it with the outer shape of the IM spacer sheet evenly.

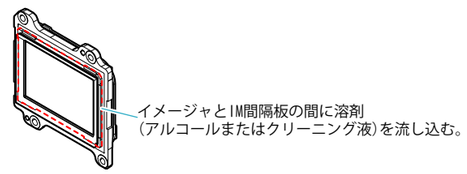

Peel off the released paper.
Peel off the released paper.
Peel off the released paper.
The two-layer side is on the imager side.
Mount Side
Imager Side
IM Spacer Fixed Tape
IM Spacer Sheet
IM Flare Cutter
Optical Filter Block

(3) Set the Optical filter block in its attachment jig (J-6082-737-A), with the attached IM spacer fixed tape facing upward.
(4) Press the imager down into the jig as shown below to attach it to the Optical filter block.

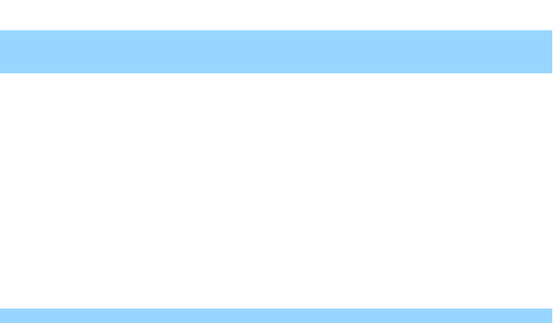


Note1: 光学フィルタブロックを交換する際は，下記を参照してください。

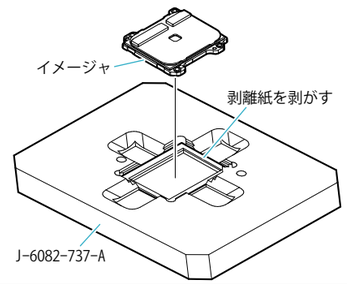
取り外し方
(1) イメージャとIM間隔板の間に溶剤(アルコールまたはクリーニング液)を流し込む。
 * IM間隔板固定テープの粘着力が弱くなるのを待ってください。
(2) イメージャからIM間隔板を取り外す。



組み付け方
(1) IM間隔板に対し，上下左右が均一になるようにIMフレアカッターおよび光学フィルタブロックを貼り付ける。
 * 光学フィルタブロックは2層側がイメージャ側になります。
(2) IM間隔板に対し，上下左右が均一になるようにIM間隔板固定テープを貼り付ける。

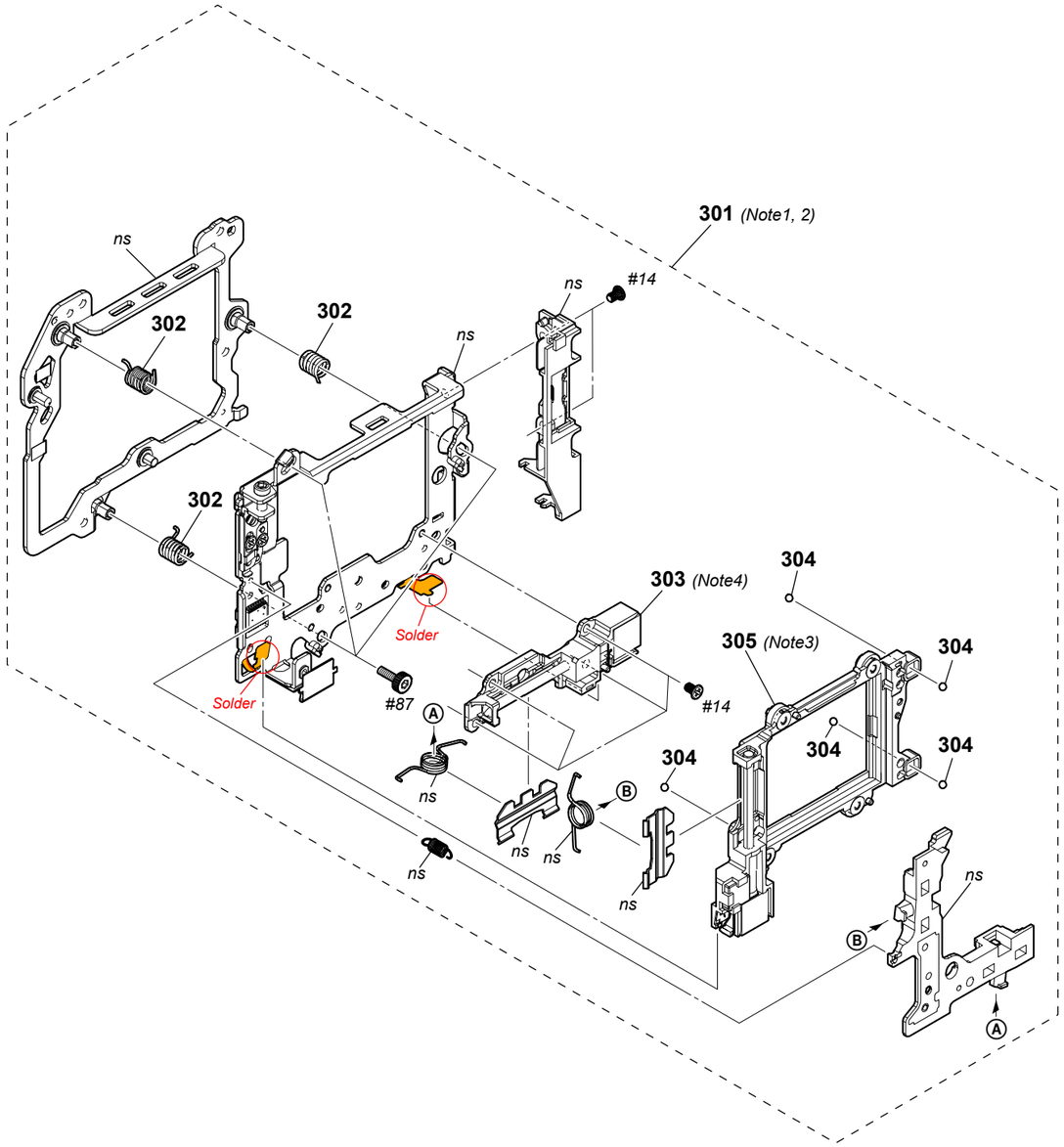


(3) 貼り付けたIM間隔板固定テープが上になるように，光学フィルタブロック貼付け治具(J-6082-737-A)にセットする。
(4) イメージャを図のように治具に押え付け，光学フィルタブロックに貼り付ける。



2-1-7. ANTI SHAKE UNIT SECTION

ns: not supplied

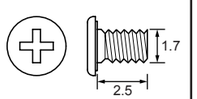


Ref. No.	Part No.	Description
301	A-1782-917-A	SLIDER UNIT (863 SERVICE), AS (Note1, 2)
302	4-110-892-01	SPRING, ADJUSTMENT AO
303	X-2548-677-1	AS HOLDER ACTUATOR ASSY (Note4)
304	2-695-356-11	BALL, BEARING
305	X-2548-676-1	AS SLIDER B ASSY (Note3)

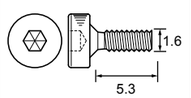
Ref. No.	Part No.	Description
#14	2-599-475-11	SCREW (M1.7)
#87	2-689-328-01	SCREW, CCD BLAST ADJUSTMENT

Screw

#14: M1.7 X 2.5
(Silver)
2-599-475-11



#87: M1.6 X 5.3
(Black)
2-689-328-01



Note

Note1: Refer to “1-3. METHOD FOR CHECKING THE AS SLIDER UNIT (863)” on page 1-1 when checking the AS Slider Unit (863).

Note2: Refer to “1-4. METHOD FOR ADJUSTING THE TEBURE REVISE” on page 1-2 when adjusting the Tebure Revise.

Note3: Refer to “1-5. METHOD FOR REPLACING THE AS SLIDER B ASSY” on page 1-2 when replacing the AS Slider B Assy.

Note4: Refer to “1-6. METHOD FOR REPLACING THE AS HOLDER ACTUATOR ASSY” on page 1-3 when replacing the AS Holder Actuator Assy.

Note1: ASスライダーユニット(863) のチェック行う場合，1-4ページの“1-3. ASスライダーユニット(863)チェック方法”を参照してください。

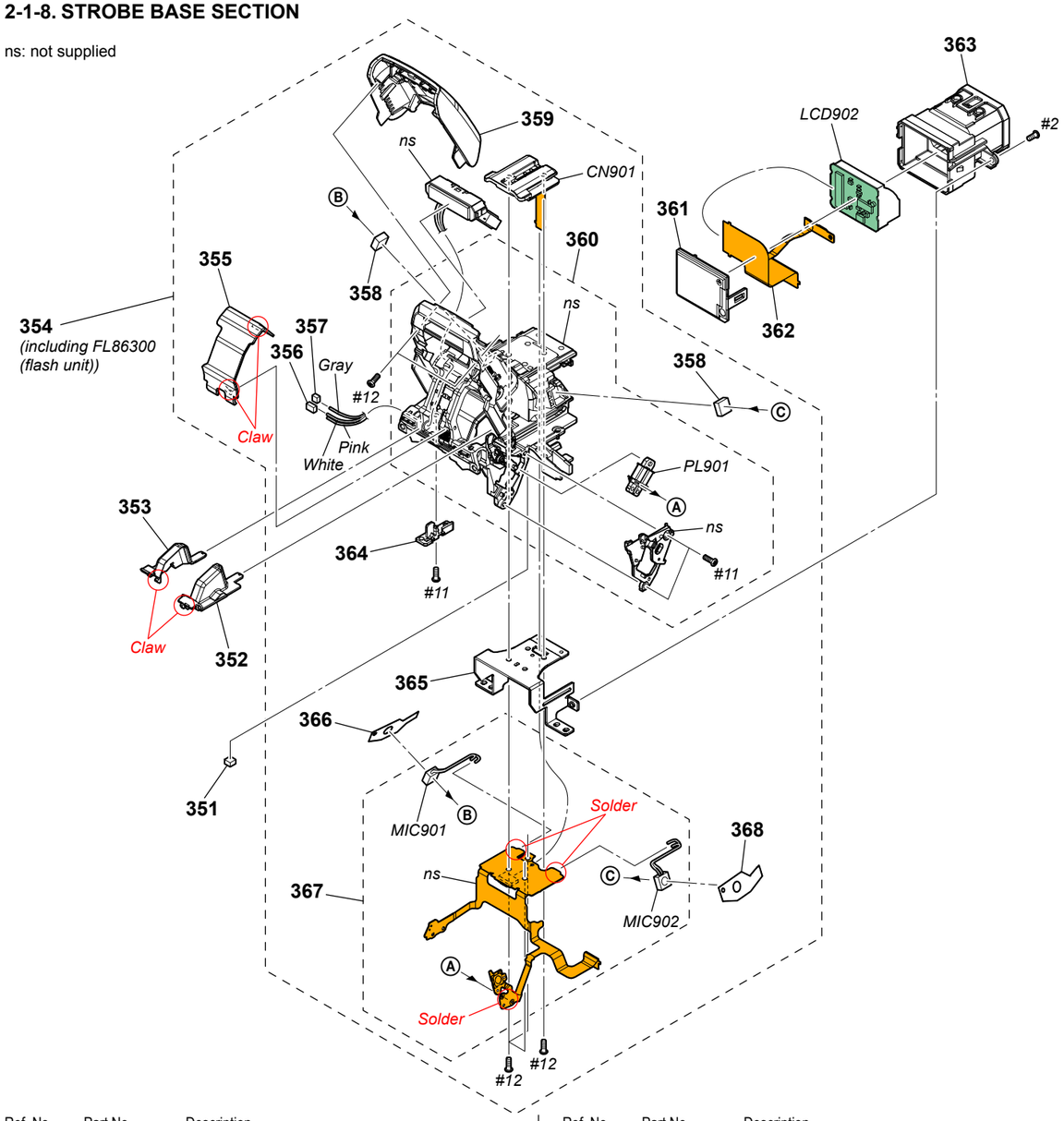
Note2: Tebure Reviseの調整を行う場合，1-5ページの“1-4. 手ぶれリバイス調整方法”を参照してください。

Note3: ASスライダー B Assyの交換を行う場合，1-5ページの“1-5. ASスライダー B ASSYの交換方法”を参照してください。

Note4: ASアクチュエータホルダAssyの交換を行う場合，1-6ページの“1-6. ASアクチュエータホルダASSYの交換方法”を参照してください。

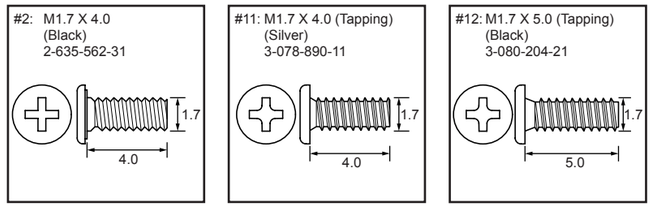
2-1-8. STROBE BASE SECTION

ns: not supplied

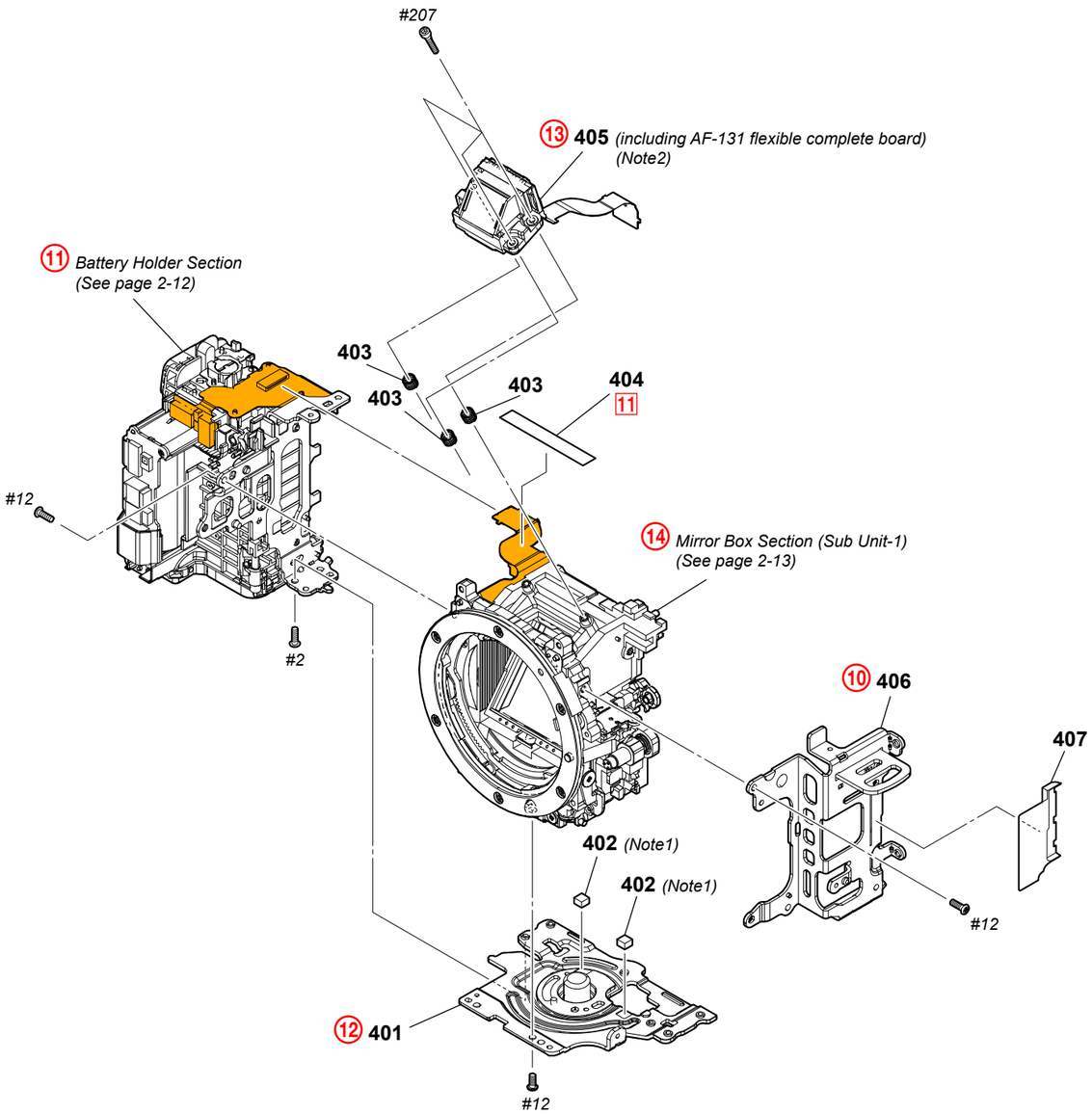


Ref. No.	Part No.	Description
351	4-192-228-01	BD ABSORBER
* 352	4-192-267-01	ST AF COVER (L)
* 353	4-192-252-01	ST AF COVER (G)
354	A-1780-735-A	STROBE BASE BLOCK ASSY (including FL86300 (flash unit))
* 355	4-192-254-01	ST P ARM COVER
356	1-820-649-21	HOUSING, CONNECTOR 2P (Yellow)
* 357	1-569-617-11	HOUSING, CONNECTOR 2P (White)
358	4-196-095-01	BD MC BASE CUSHION
* 359	4-192-253-01	ST CASE (U)
360	X-2548-484-1	ST STROBE BASE ASSY
* 361	4-192-268-01	VM MODULE HOLDER
362	1-881-219-21	AO-001 FLEXIBLE BOARD
363	X-2548-487-2	VM VF LENS ASSY
* 364	4-192-224-01	ST SW PLATE
* 365	4-192-223-01	ST SHOE FRAME
366	4-196-096-01	BD HM TAPE (G)
367	A-1783-998-A	SHM-001 FLEXIBLE BOARD, COMPLETE
368	4-196-097-01	BD HM TAPE (L)
CN901	1-822-402-11	SHOE CONNECTOR
LCD902	1-811-202-21	LCD MODULE
MIC901	1-542-757-61	MICROPHONE UNIT
MIC902	1-542-757-61	MICROPHONE UNIT
PL901	1-455-061-11	SOLENOID, PLUNGER
#2	2-635-562-31	SCREW (M1.7)
#11	3-078-890-11	SCREW, TAPPING
#12	3-080-204-21	SCREW, TAPPING, P2

Screw



2-1-9. AF MODULE SECTION



Ref. No.	Part No.	Description
401	X-2548-480-1	BD BOTTOM FRAME ASSY
402	4-192-228-01	BD ABSORBER (Note1)
403	2-693-420-01	SP, S ADJUSTMENT
* 404	4-162-330-01	EM FPC TAPE
405	A-1735-179-A	ALX-8630 (including AF-131 flexible complete board) (Note2)

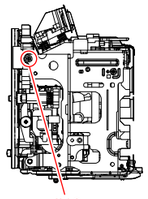
Ref. No.	Part No.	Description
406	X-2548-481-1	BD SIDE FRAME (L) ASSY
* 407	4-195-077-01	BD LIGHT INTERCEPTION SHEET (A)
#2	2-635-562-31	SCREW (M1.7)
#12	3-080-204-21	SCREW, TAPPING, P2
#207	4-191-605-01	S ADJUSTMENT SCREW

DISASSEMBLY

1. Remove to numerical order (⑩ to ⑭) in the left figure.

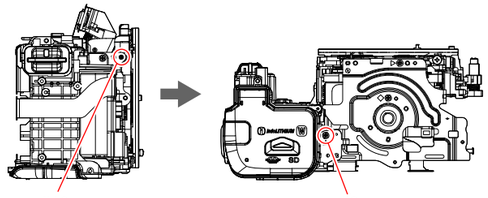
⑩ #12 X 1

Right View



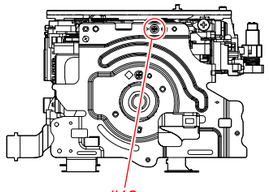
⑪ EM FPC TAPE (11) → #12 X 1 → #2 X 1

Left View　　Bottom View



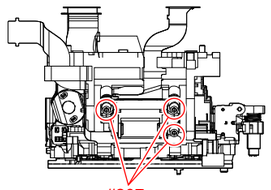
⑫ #12 X 1

Bottom View



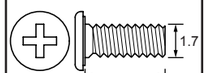
⑬ #207 X 3

Top View

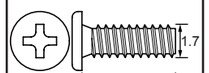


Screw

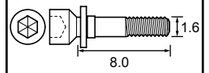
#2: M1.7 X 4.0 (Black) 2-635-562-31



#12: M1.7 X 5.0 (Tapping) (Black) 3-080-204-21



#207: M1.6 X 8.0 (Silver) 4-191-605-01



Note

Note1: Refer to “Assembly-6: BD Absorber putting position” when you assemble.

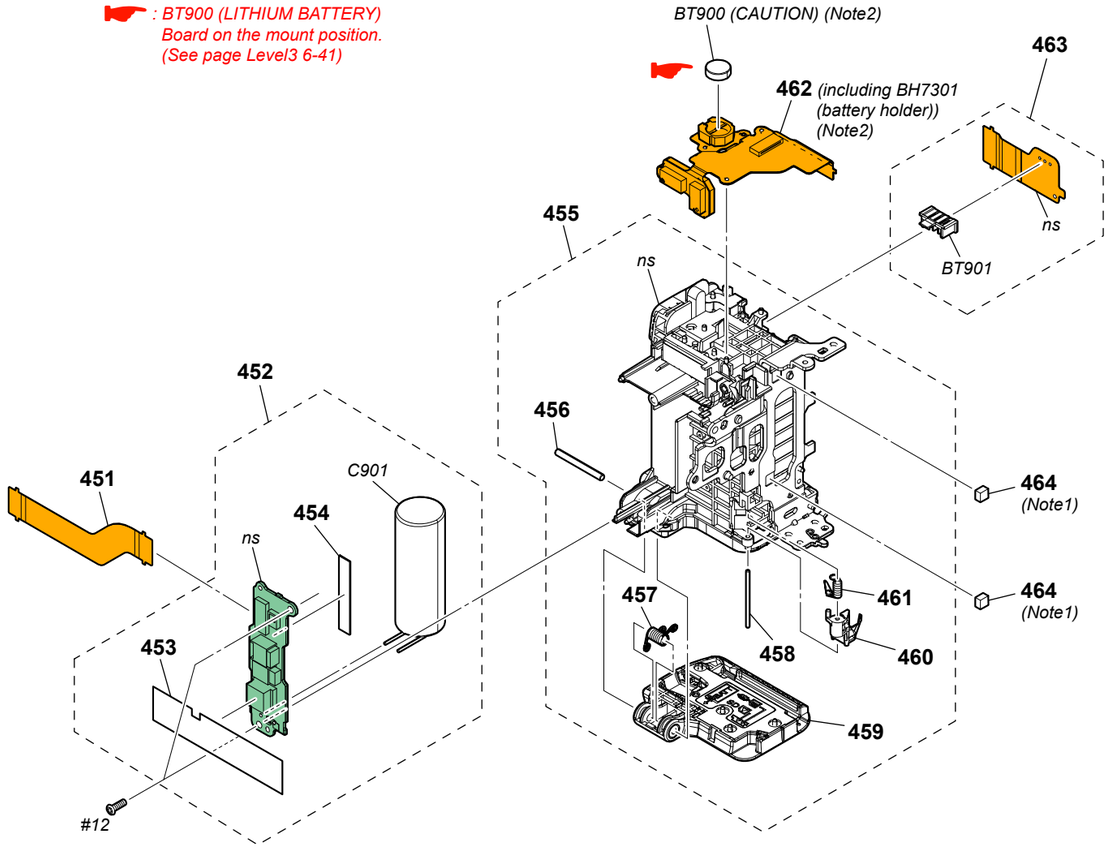
Note2: Refer to “Assembly-7: Assemble ALX-8630 (AF Module)” when you assemble.

Note1: 組立時は“Assembly-6: BD Absorber putting position”を参照してください。

Note2: 組立時は“Assembly-7: Assemble ALX-8630 (AF Module)”を参照してください。

2-1-10. BATTERY HOLDER SECTION

ns: not supplied

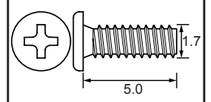


Ref. No.	Part No.	Description
451	1-881-181-11	STC-002 FLEXIBLE BOARD
452	A-1783-995-A	ST-233 BOARD, COMPLETE
453	4-196-592-01	BD ST SHIELD SHEET
454	4-192-221-01	BD CONDENSER TAPE
455	X-2548-482-2	BD BATTERY HOLDER ASSY
* 456	4-192-244-01	BD BT LID COVER SHAFT
* 457	4-192-246-01	BD BT LID COVER OPEN SP
* 458	4-192-241-01	BD BATTERY LOCK SHAFT
459	X-2548-483-1	BD BT LID COVER ASSY
460	4-192-240-02	BD BATTERY LOCK
* 461	4-192-242-01	BD BATTERY LOCK SP

Ref. No.	Part No.	Description
462	1-881-176-21	GY-024 FLEXIBLE BOARD (including BH7301 (battery holder)) (Note2)
463	A-1783-996-A	BT-062 FLEXIBLE BOARD, COMPLETE
464	4-192-228-01	BD ABSORBER (Note1)
⚠ BT900	1-756-135-31	BATTERY LITHIUM SECONDARY (CAUTION) (Note2)
⚠ BT901	1-780-858-11	TERMINAL BOARD BATTERY
⚠ C901	1-116-522-11	ELECT 180uF 99% 330V
#12	3-080-204-21	SCREW, TAPPING, P2

Screw

#12: M1.7 X 5.0 (Tapping)
(Black)
3-080-204-21



Note

Note1: Refer to “Assembly-5: BD Absorber putting position” when you assemble.

Note2: When replacing the lithium battery (BT900) for the GY-024 Flexible Board, be sure to replace with a new GY-024 Flexible Board including the battery holder (BH7301).
(The Battery Holder removed once cannot be used again.)

Caution
Danger of explosion occurs if battery is incorrectly replaced. Replace only with the same or equivalent type. Dispose of used batteries according to the instructions.

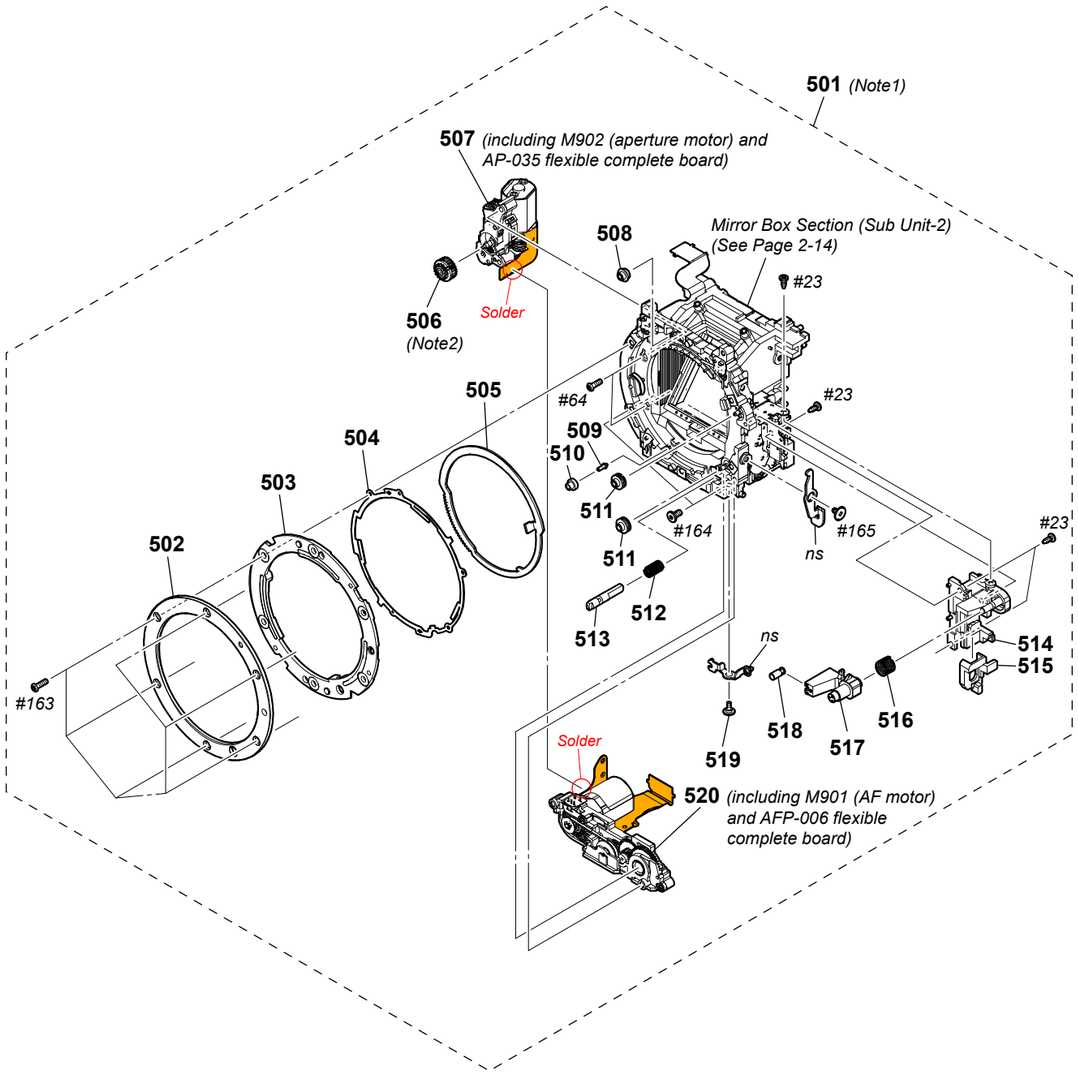
Note1: 組立時は“Assembly-5: BD Absorber putting position”を参照してください。

Note2: GY-024フレキシブル基板のリチウム蓄電池 (BT900) を交換する場合はバッテリホルダ(BH7301)を含むGY-024フレキシブル基板を同時に新品に交換してください。
(一度使用したバッテリホルダは再使用できません。)

Caution
電池の交換は，正しく行わないと破裂する恐れがあります。電池を交換する場合には必ず同じ型名の電池又は同等品と交換してください。
使用済み電池は，取扱指示に従って処分してください。

2-1-11. MIRROR BOX SECTION (SUB UNIT-1)

ns: not supplied

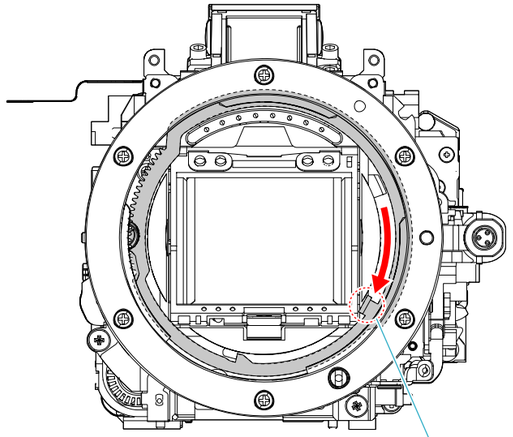


Ref. No.	Part No.	Description
501	A-1779-681-A	MB MIRROR BOX SUB UNIT (Note1)
502	2-689-021-01	MOUNT, H
503	4-191-603-01	MB MOUNT SPACER
504	2-689-198-01	MB RING SP
505	4-185-798-01	AP RING
506	4-185-797-01	AP JOINT GEAR (Note2)
507	A-1779-678-A	AP APERTURE UNIT (including M902 (aperture motor) and AP-035 flexible complete board)
508	2-689-314-01	ROLLER B (SV), RING
509	3-268-951-01	SHAFT, RING ROLLER (C) (SV)
510	3-277-916-01	AP RING ROLLER C
511	2-689-313-01	ROLLER A (SV), RING
* 512	4-141-103-01	AF COUPLER TENSION SP
513	4-141-108-01	AF COUPLER
514	4-191-591-01	MB LENS LOCK BASE PLATE
515	4-191-592-01	MB AF/MF CHANGE LEVER
* 516	4-141-090-01	MB LENS LOCK SP
517	4-191-597-01	MB LENS LOCK BUTTON
* 518	4-141-092-01	MB LENS LOCK PIN
* 519	2-689-289-11	SHAFT, COUPLER LEVER
520	A-1779-675-A	AF DRIVING UNIT (including M901 (AF motor) and AFP-006 flexible complete board)
#23	3-080-204-11	SCREW, TAPPING, P2
#64	2-666-551-21	SCREW, TAPPING, P2
#163	2-695-575-11	SCREW (T2), +P1 PAN TAPPNG
#164	3-268-954-11	SCREW, AF BASE PLATE STOPPER
#165	2-695-434-31	SCREW (T1.7), HEAD PAN TAPPING

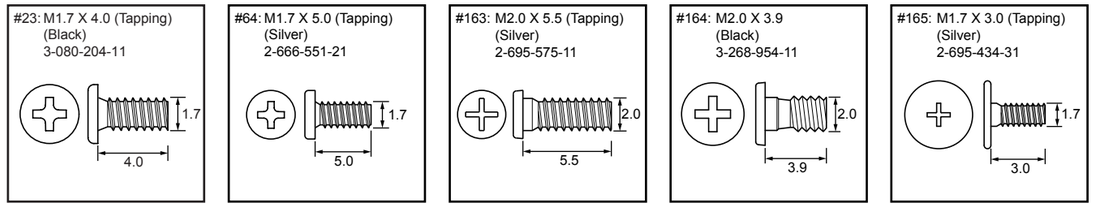
DISASSEMBLY

Iris Ring Removal

Rotate the Iris Ring clockwise, and remove it at the stop position (iris-in end).
At this time, do not rotate the Iris Joint Gear of the AP Aperture Unit.



Screw



Note

Note1: Refer to “Assembly-8: Mirror Box Sub Unit” when you assemble.

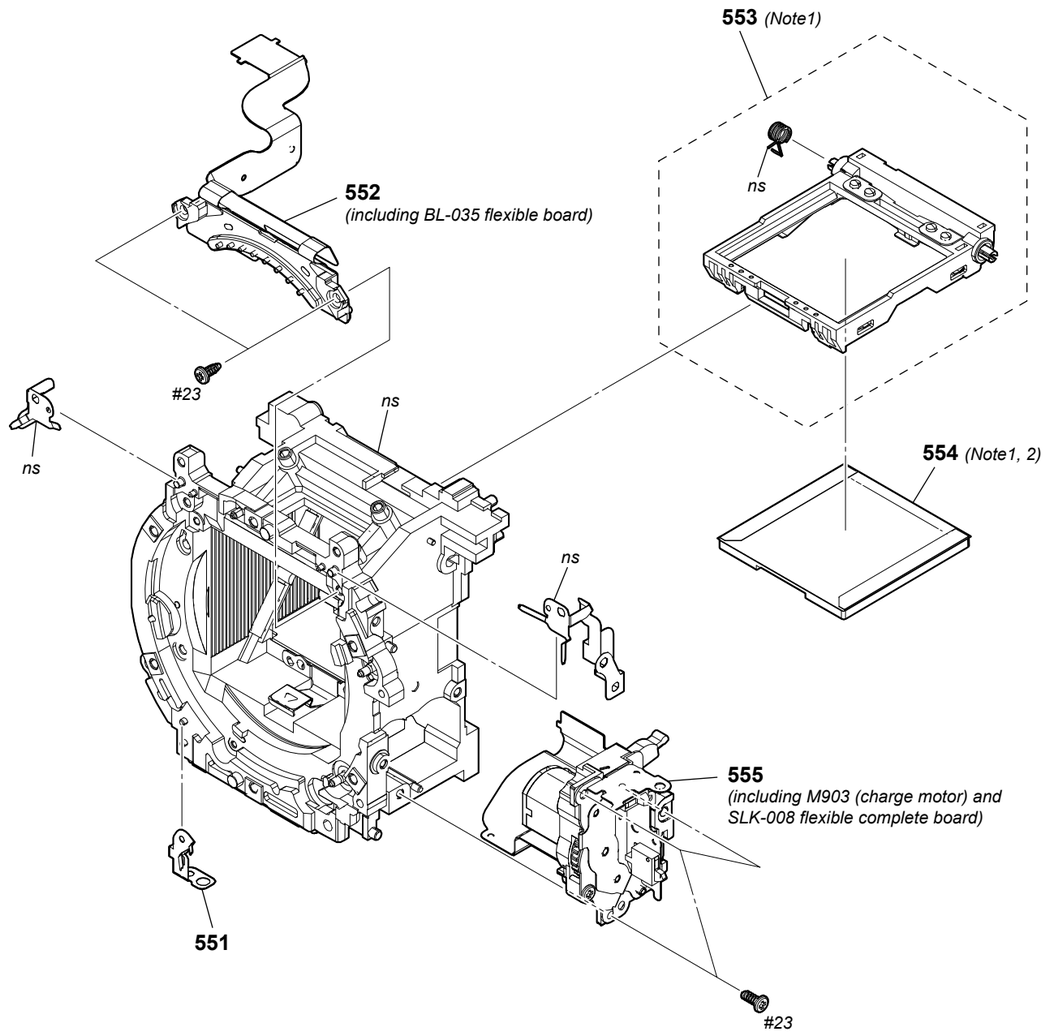
Note2: The charge position returns to the free position when the Iris Joint Gear is removed from the AP Aperture Unit.
Refer to “Assembly-8: Mirror Box Sub Unit 1-3. AP Aperture Unit Charge Position Setting” when attaching the Iris Joint Gear.

Note1: 組立時は“Assembly-8: Mirror Box Sub Unit”を参照してください。

Note2: AP絞りユニットからAP連結ギアを取り外すとチャージ位置がフリー位置に戻ります。
AP連結ギアを取付ける際は“Assembly-8: Mirror Box Sub Unit 1-3. AP Aperture Unit Charge Position Setting”を参照してください。

2-1-12. MIRROR BOX SECTION (SUB UNIT-2)

ns: not supplied

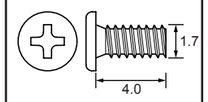


Ref. No.	Part No.	Description
* 551	4-141-104-01	EM A MOUNT LUG PLATE (LOWER)
552	A-1779-677-A	BL CONTACT UNIT (including BL-035 flexible board)
553	X-2548-413-2	MB MIRROR FRAME HOLDER ASSY (Note1)
554	A-1789-528-A	P.O.I. (SERVICE) (Note1, 2)

Ref. No.	Part No.	Description
555	A-1779-676-A	MB SHUTTER CHARGE UNIT (including M903 (charge motor) and SLK-008 flexible complete board)
#23	3-080-204-11	SCREW, TAPPING, P2

Screw

#23: M1.7 X 4.0 (Tapping)
(Black)
3-080-204-11



Note

Note1: If the MB Mirror Frame Holder Assy (P.O.I.) is raised and then pushed from the front side with the Shutter Unit (AFE-3032) and the AS Slider Unit (863) have been removed, it may drop off behind and get scratched or damaged.

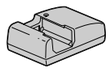
Note2: Refer to “1-1. METHOD FOR REPLACING THE P.O.I.” on page 1-1 when replacing the P.O.I. without disassembling the camera.

Note1: シャッターユニット，ASスライダーユニットを取り外した状態でMBミラー枠ホルダー Assy (P.O.I.)をアップさせ，正面より押した場合，後ろへ抜け落ち，キズ，破損の恐れがあります。

Note2: 分解を行わずにP.O.I.のみ交換する場合，1-4 ページの“1-1. P.O.I.の交換方法”を参照してください。

Checking supplied accessories.

Note: This item is supplied with the unit as an accessory, but is not prepared as a service part.



Battery charger
(BC-VW1)
⚠ 1-487-907-11 (J)
⚠ 1-487-907-21 (CND, US)
⚠ 1-487-907-41 (EXCEPT J, CND, US)

Power cord (mains lead)
⚠ 1-832-121-51 (CH)
⚠ 1-837-421-11 (E (Saudi, Hong Kong), UK)
⚠ 1-837-422-11 (JE)
⚠ 1-837-427-11 (AEP, E (EXCEPT Saudi, Hong Kong))
⚠ 1-837-428-11 (KR)
⚠ 1-837-429-11 (AUS)

Conversion (2P) Adaptor
⚠ 1-569-007-12 (JE)

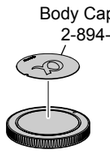
Conversion (2P) Adaptor
⚠ 1-569-008-33
(E (EXCEPT Saudi, Hong Kong))

Rechargeable Battery Pack
(NP-FW50)
(Note)

USB cable
1-829-868-31

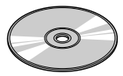
Shoulder strap
4-196-660-01

Eyecup
4-192-215-01



Body Cap Seal
2-894-387-01

Body cap
2-688-728-12



CD-ROM
- Application Software for α camera
4-195-615-02

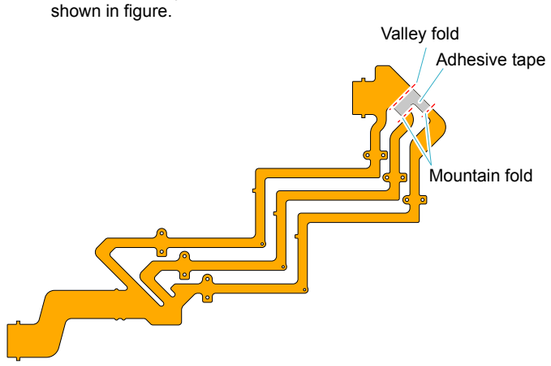
Instruction Manual
(Only for destination Japanese model)
日本語，英語，韓国語，中国語のみ部品供給可能です。

4-187-045-01 (JAPANESE)
4-187-045-11 (ENGLISH)
＊ 4-187-045-21 (FRENCH, ITALIAN)
＊ 4-187-045-31 (SPANISH, PORTUGUESE)
＊ 4-187-045-41 (GERMAN, DUTCH)
＊ 4-187-045-52 (TRADITIONAL CHINESE, SIMPLIFIED CHINESE) (E, JE)
＊ 4-187-045-62 (RUSSIAN)
＊ 4-187-045-72 (ARABIC, PERSIAN)
4-187-045-82 (KOREAN)
4-187-045-92 (SIMPLIFIED CHINESE) (CH)
＊ 4-187-046-11 (POLISH)
＊ 4-207-057-11 (INDONESIAN)

3. ASSEMBLY

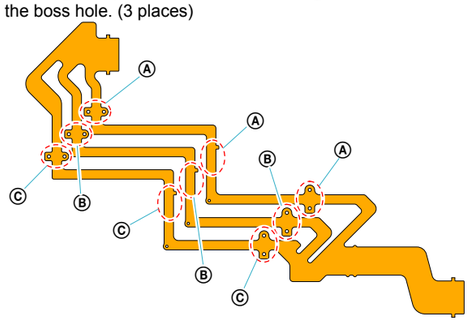
Assembly-1: Method of attachment of LCD-021 Flexible Board

1-1. Fold dotted line parts of the LCD-021 Flexible Board as shown in figure.

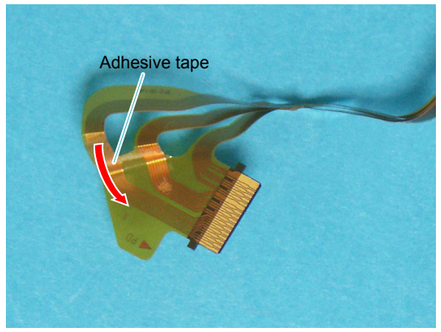


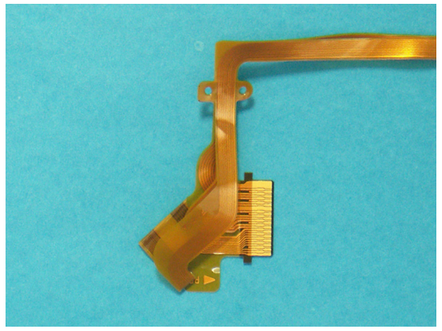
1-2. Peel off the released paper of double-coated adhesive tape on the Ⓑ side, and then attach it to the Ⓐ side without covering the boss hole. (3 places)

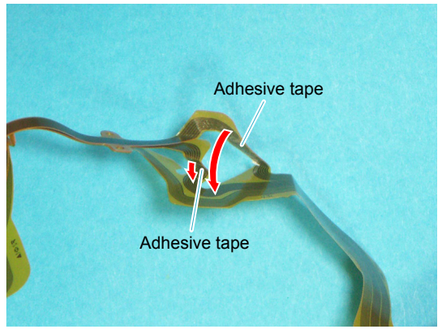
Peel off the released paper of double-coated adhesive tape on the Ⓒ side, and then attach it to the Ⓐ side without covering the boss hole. (3 places)

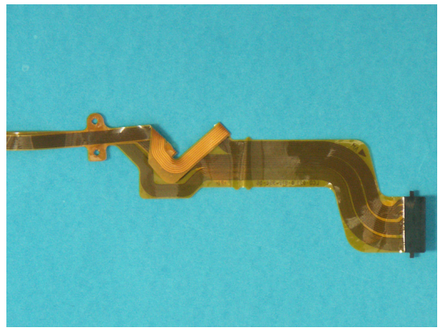


1-3. Peel off the released paper of double-coated adhesive tape, and then fold dotted line parts of the LCD-021 Flexible Board as shown in figure.

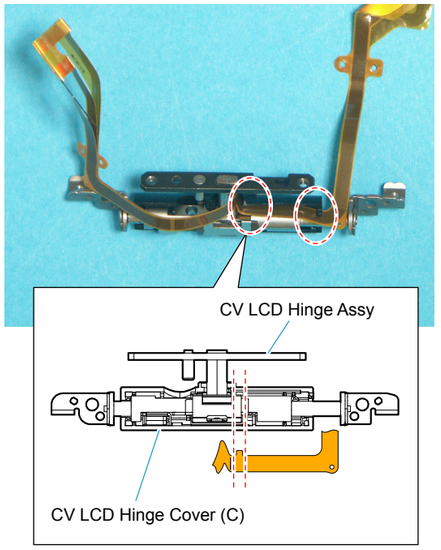








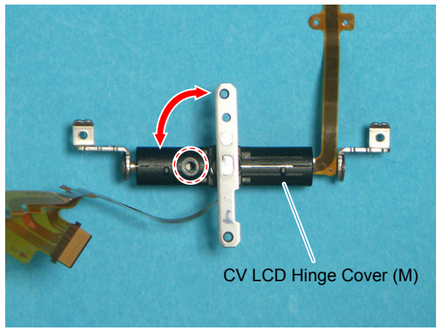
1-4. Attach the CV LCD Hinge Cover (C) to the CV LCD Hinge Assy, and then attach the LCD-021 Flexible Board as shown in figure.



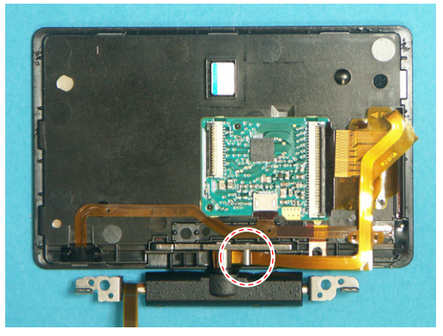
1-5. ① Attach the CV LCD Hinge Cover (M), and then rotate the CV LCD Hinge Assy by 90°.

② Tighten one “#2: M1.7 X 4.0” screw.

③ Rotate the CV LCD Hinge Assy by 90° to return it to the original position.

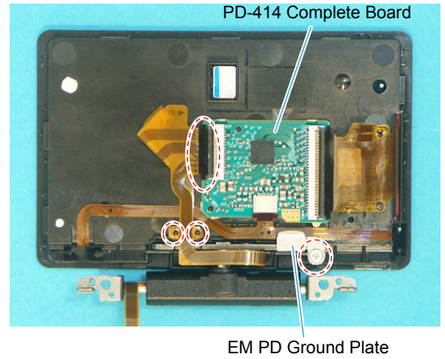


1-6. Attach the LCD-021 Flexible Board as shown in figure.



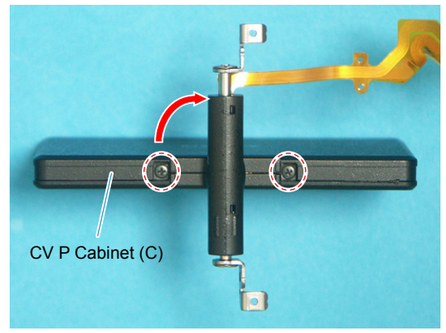
1-7. ① Connect the LCD-021 Flexible Board to the connector of the PD-414 Complete Board, and attach it to the boss hole.

② Attach the EM PD Ground Plate and tighten one “#11: M1.7 X 4.0 (Tapping)” screw.

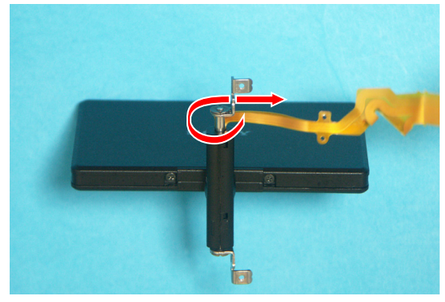


1-8. ① Attach the CV P Cabinet (C), and then rotate the CV LCD Hinge Assy by 90° as shown in figure.

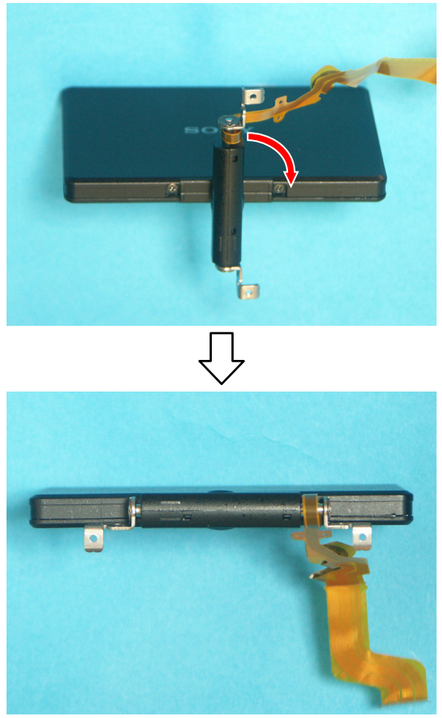
② Tighten the two “#2: M1.7 X 4.0” screws.



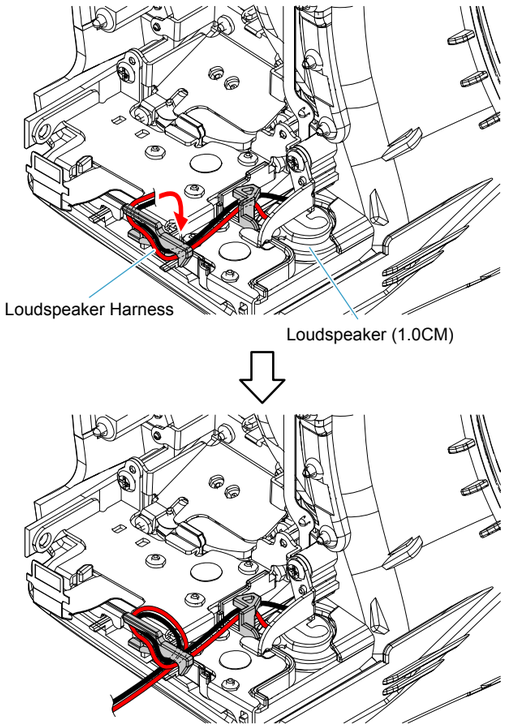
1-9. Wrap the LCD-021 Flexible Board around the CV LCD Hinge Assy by rotating it one circle as shown in figure.



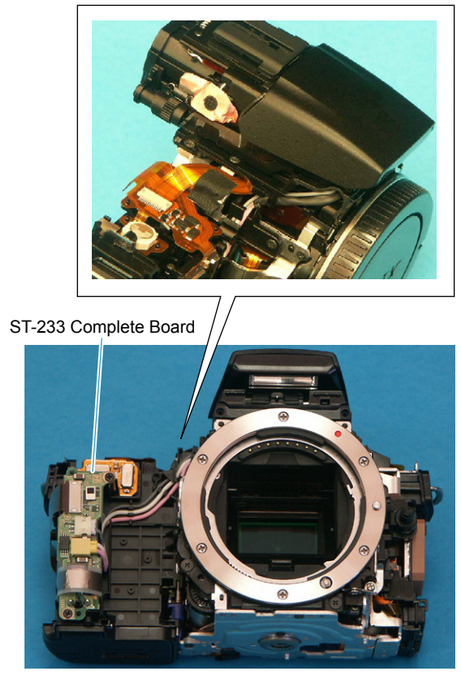
1-10. Rotate the CV LCD Hinge Assy by 90° in the position shown with the arrow mark.



Assembly-2: Routing of Loudspeaker Harness

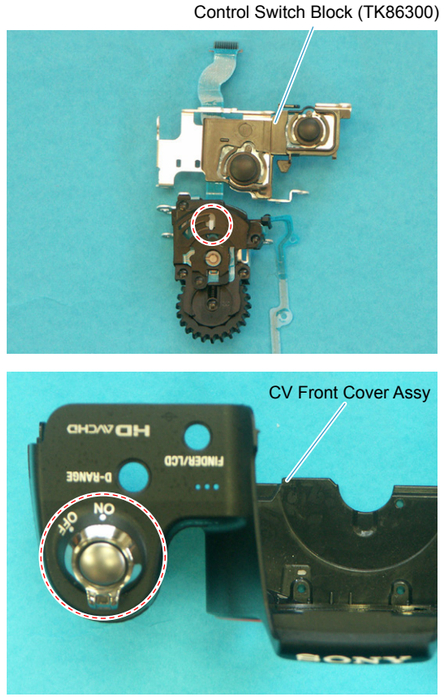


Assembly-3: Routing of Flash Unit Harness

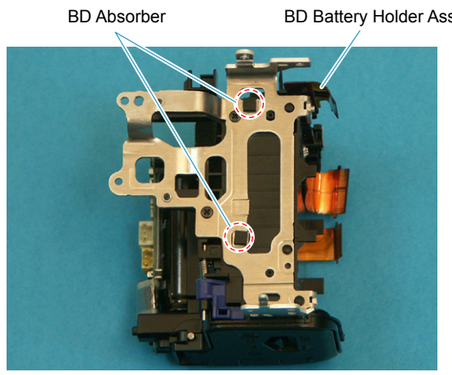


Assembly-4: Assemble Control Switch Block (TK86300)

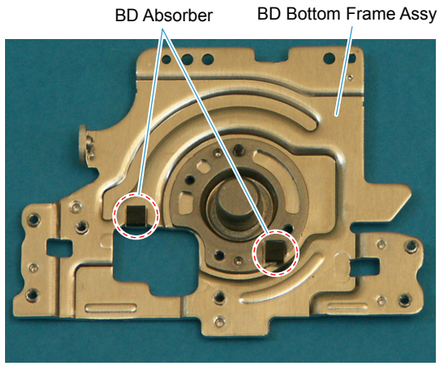
When assembling the Control Switch Block (TK86300), check if the power levers of both CV Front Cover Assy and Control Switch Block (TK86300) are in ON position.



Assembly-5: BD Absorber putting position

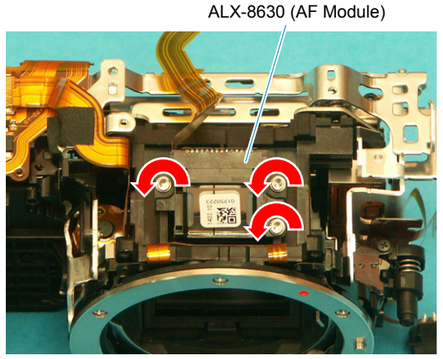


Assembly-6: BD Absorber putting position



Assembly-7: Assemble ALX-8630 (AF Module)

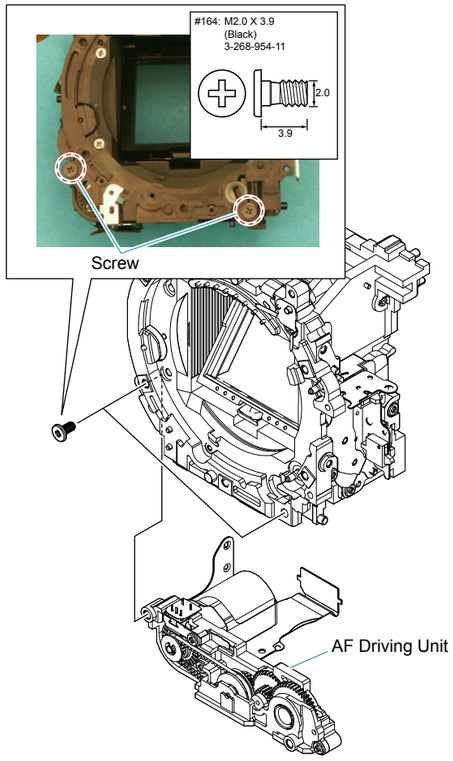
7-1. Tighten the S Adjustment Screw completely.
7-2. Loosen the S Adjustment Screw for half circle.



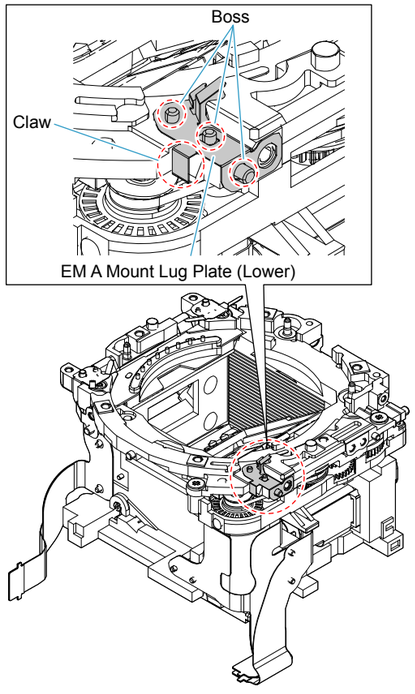
7-3. Perform the adjustment.

Assembly-8: Mirror Box Sub Unit

1-1. AF Driving Unit



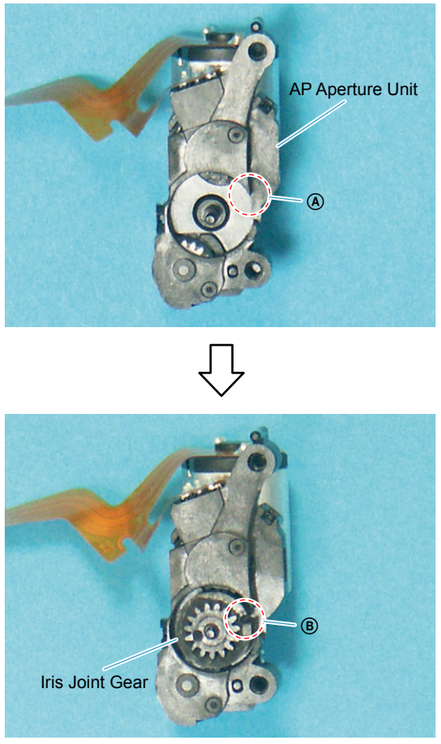
1-2. EM A Mount Lug Plate (Lower)



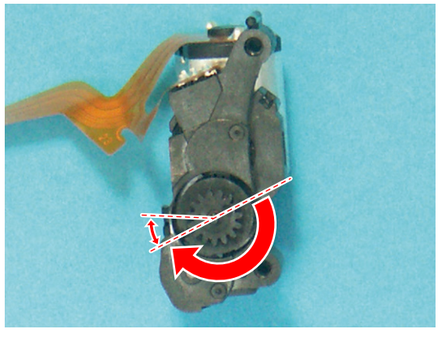
1-3. AP Aperture Unit Charge Position Setting

① Check that the AP Aperture Unit is in a free state.
∗ Refer to “1-5. AP Aperture Unit Free Position Setting” for the setting and the confirming method at the free position

② Set the Iris Joint Gear by aligning the Ⓐ portion of AP Aperture Unit with the Ⓑ portion (U groove) of Iris Joint Gear.



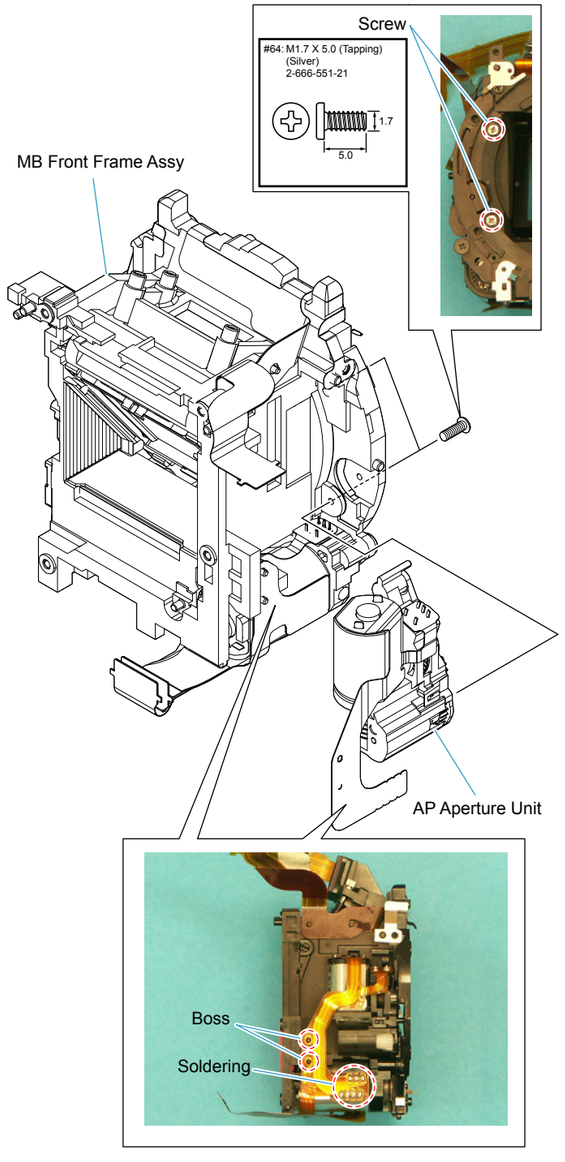
③ After setting, rotate the Iris Joint Gear by 180° to 210° in the position shown with the arrow mark.



1-4. AP Aperture Unit

∗ Attach the Iris Joint Gear to the AP Aperture Unit, and then attach them to the MB Front Frame Assy with the AP Aperture Unit being on charge position.

∗ Refer to “1-3. AP Aperture Unit Charge Position Setting” for the confirm method at the charge position.



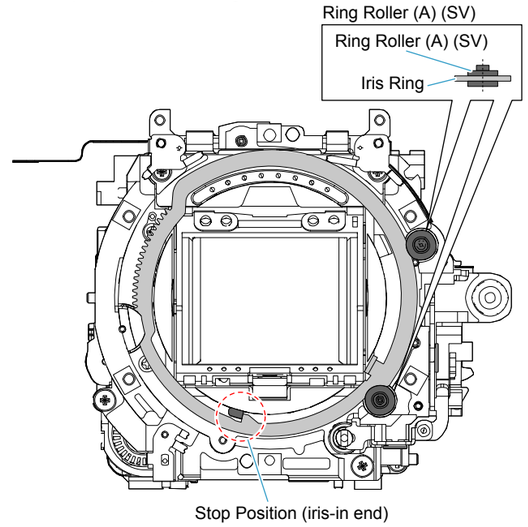
1-5. AP Aperture Unit Free Position Setting

The AP Aperture Unit returns to the original potion when the Iris Joint Gear is removed from it.

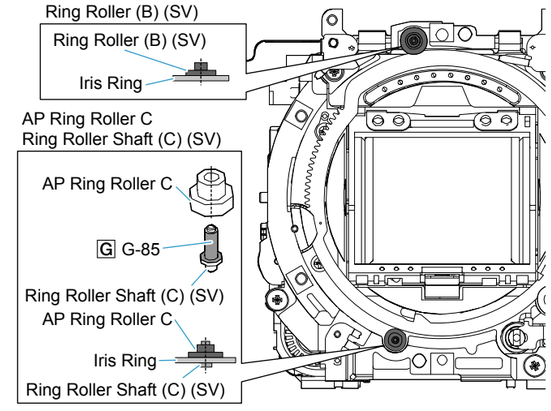
1-6. Ring Roller (A) (SV), Iris Ring

① Attach the Ring Roller (A) (SV) to the MB Front Frame Assy.
∗ When attaching the Ring Roller (A) (SV), be sure to remove the Iris Ring beforehand.

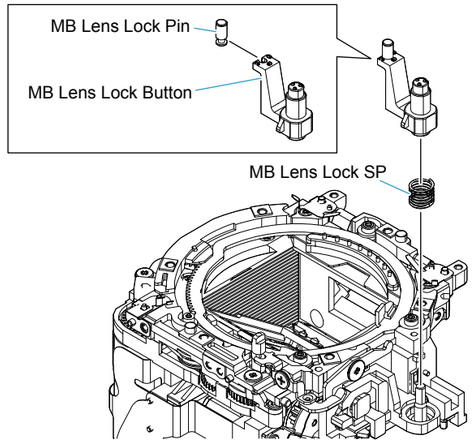
② Attach the Iris Ring by aligning it with the stop position (iris-in end) of drawing.



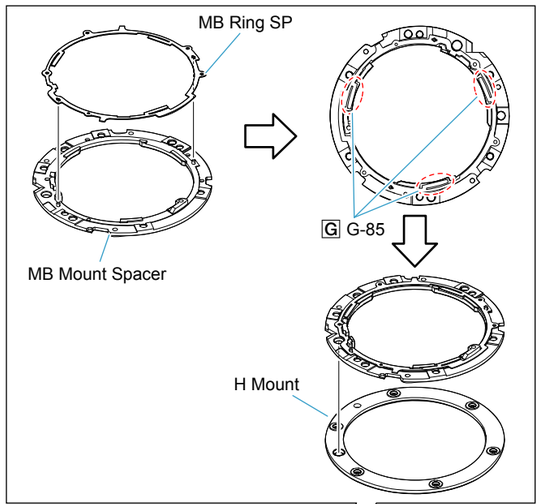
1-7. Ring Roller (B) (SV), AP Ring Roller C, Ring Roller Shaft (C) (SV)

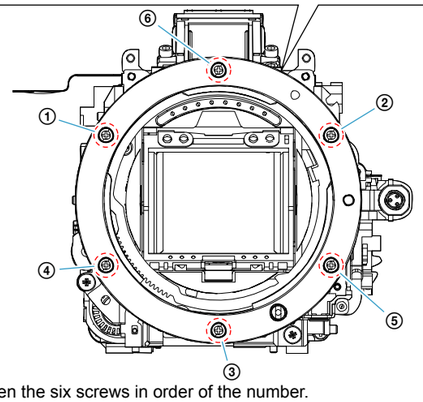


1-8. MB Lens Lock Button, MB Lens Lock Pin, MB Lens Lock SP

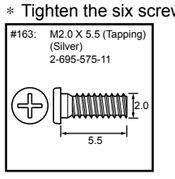


1-9. MB Ring SP, MB Mount Spacer, H Mount





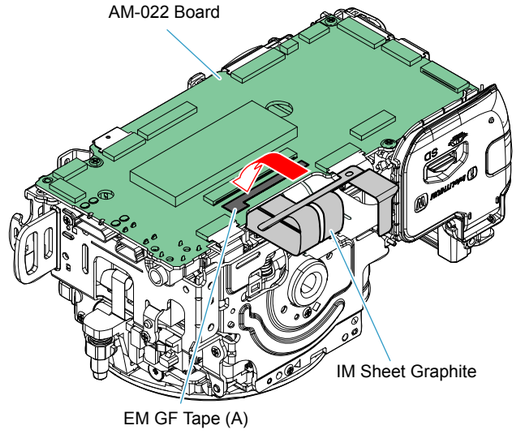
* Tighten the six screws in order of the number.



Assembly-9: Note on attachment of EM GF Tape (A) and IM Sheet Graphite

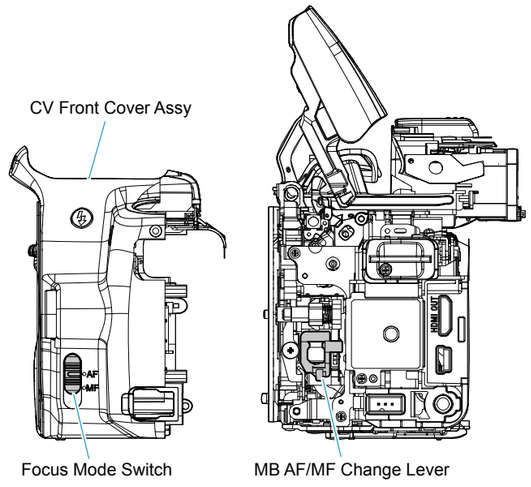
Note: When attaching the EM GF Tape (A) and the IM Sheet Graphite, do not bend the AM-022 Board.

9-1. Attach the EM GF Tape (A) by aligning with the printing of the AM-022 Board.
9-2. Peel off the released paper from the EM GF Tape (A), and then attach the IM Sheet Graphite.



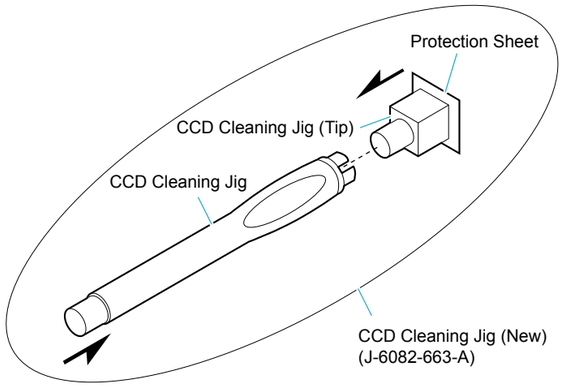
Assembly-10: Assemble CV Front Cover Assy

When assembling the CV Front Cover Assy, check if the focus mode switch of both CV Front Cover Assy and MB AF/MF Change Lever are in AF position.

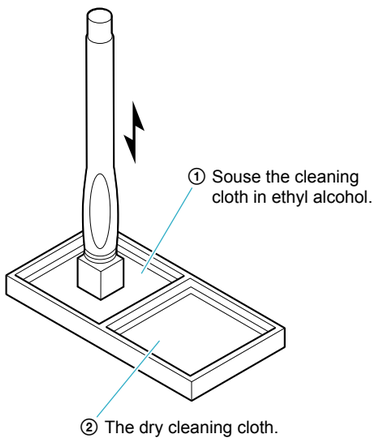


3-2. CLEANING PROCEDURE OF OLPF

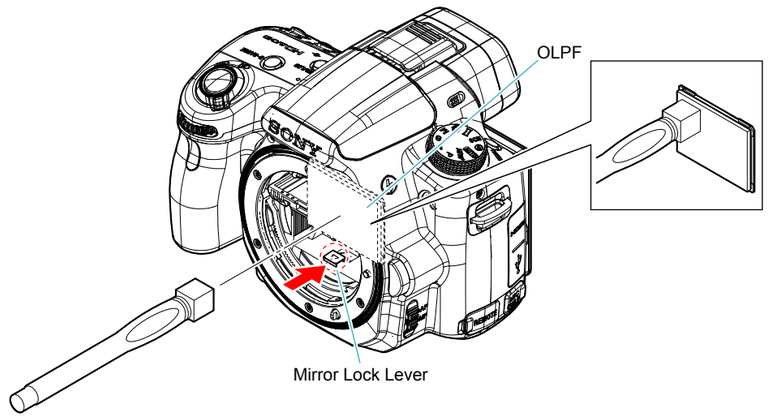
<Preparation for Remedy>
If you use the new Jig (J-6082-663-A) below, make sure to clean the CCD Cleaning Jig (Tip) below before using, please.
Note: Protection sheet is for preventing the scratch of a surface on the Jig (Tip).
The protection sheet may be come off the Jig when you take the Jig from a bag, but it is no problem.



<Cleaning Procedure for Tip of CCD Cleaning Jig>
1. Put the two cleaning cloths on a tray like below.
   ① Souse the one cleaning cloth in ethyl alcohol.
   ② Put the other cleaning cloth on a tray as it is dry.
2. Dab the tip of CCD cleaning jig at the cleaning cloth of ① 5 or 6 times.
   ∗ Do not slide the tip from right to left or up and down while dabbing.
3. Dab the tip of CCD cleaning jig at the cleaning cloth of ② 5 or 6 times.
   ∗ Do not slide from right to left or up and down while dabbing.
4. Wait until the tip will be dried completely.



<Cleaning Procedure for the OLPF>
1. Clean up the tip of CCD cleaning jig.
2. Press the Mirror Lock Lever to raise the P.O.I.
3. Dab the tip of CCD cleaning jig at the OLPF, and pull up straight.
   ∗ Do not slide from right to left or up and down while dabbing.
4. Repeat “3” several times to clean up.
5. According to service manual, check if there is dirt on the CCD.



<ATTENTION>
If you cannot remove dirt with remedy above, cleaning by the following jig are used.
Soak a small amount of EE3310 (Liquid cleaner) after wrapping the cleaning cloth (J-6082-636-A) around the cleaning jig (J-6082-635-A).